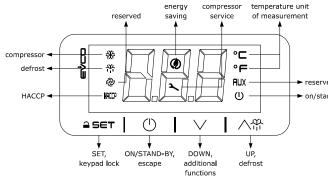
| EVCO S.p.A. EV3121 Instruction sheet ver. 1.0 Code 1043121E103 Page 1 of 2 PT 23/17 EV3121 Controlle | | | undercounters and i strategies | islan | ds, | | | | EVCC |
|--|---|--|---|--|---|------------------|--|--|--|
| | with energy-saving strategies 4.1 Switching the pevice on/off | | | 4. | 4. Touch the ON/STAND-BY key (or do not ope the procedure. | | | | do not operate for 60 s) to exit |
| | 1. If POF = 1, touch the ON/STAND-BY key for 4 s. If the device is switched on, the display will show the P5 value ("cabinet temperature" default); if the display shows an alarm code see the section ALARMS | | | | | | | umber and the firmware revision to characteristic to the second structure of t | on |
| | If the display shows an alarm code, see the section ALARMS. LEO, ON OFF FLASHING Compressor on compressor off - compressor protection act | | | 1. | ĺ √ | ^ | ₩ • | Touch the DOWN key for 4 s. | |
| | defrost active | - | - setpoint setting active dripping active | 2. | LAB. | | | | n 15 s to select a label. |
| E ENGLISH Controllers for normal temperature units. Power supply 230 VAC or 115 VAC (according to the model). | HACCP saved HACCP alarm | | new HACCP alarm saved | 3. | PrJ rEU | - | the firr | oject number nware revison Touch the SET key. | |
| Cabinet probe (PTC/NTC). Door switch/multi-purpose input. Compressor relay 16 A res. @ 250 VAC. | request for comp sor service | | - settings active - access to additional functions | 4. | | \bigcirc | Ī | Touch the ON/STAND-BY key (or the procedure. | do not operate for 60 s) to exit |
| Alarm buzzer. TTL MODBUS slave port for BMS. Cooling or heating operation. | °C/°F view temperature | - | active overcooling or overheating active | - | Settin | | figurati | ion parameters | |
| 1 MEASUREMENTS AND INSTALLATION Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided. | device off | device on | device on/off active | 1. | | SET | | Touch the SET key for 4 s: the di | splay will show the label "PA". |
| | If 30 s have elapsed without the keypad will lock automat | | display will show the $``\textbf{Loc''}$ label and | 2. 3. | | | ₩ ₩ | Touch the SET key. Touch the UP or DOWN key withi fault "-19"). | n 15 s to set the PAS value (de- |
| | 4.2 Unlock keypad Touch a key for 1 s: the disp | ay will show the label " UnL " | | 4. | | SET | • | Touch the SET key (or do not op show the label "SP". | perate for 15 s): the display will |
| ≤ 59.0 (2 5/16) ≤ 75.0 (2 15/16) ≤ 81.5 (3 3/16) | 4.3 Set the setpoint Check that the keypad is not | locked. | | 5. 6. | Í ∎ | | - | Touch the UP or DOWN key to se Touch the SET key. | ect a parameter. |
| drilling template | | Touch the SET key. | within 15 s to set the value within | 7. | Ý | | | Touch the UP or DOWN key within | 15 s to set the value. |
| | 2. SET | the limits r1 and r2 (default Touch the SET key (or do no | ^{••-50 50″)} | 8. | | SET | - | Touch the SET key (or do not ope Touch the SET key for 4 s (or do | |
| | | frost (if r5 = 0, default) | | 9. | ' | SET | • | procedure. | |
| | Check that the keypad is not | locked and that overcooling Touch the UP key for 2 s. | is not active. | | Set th nected | | e, time | and day of the week (availabl | e if module EVIF23TSX is con- |
| INSTALLATION PRECAUTIONS - The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in) | If P4 = 1, defrost is activate threshold. | d provided that the evapora | ator temperature is lower than the d2 | ° 0 | | | | the device from the mains within f the week. | two minutes since the setting of |
| - Ensure that the working conditions are within the limits stated in the <i>TECHNICAL</i> SPECIFICATIONS section. | 4.5 Silence buzzer (if A Touch a key. | 13 = 1) | | Check t | hat the | e keypa | ad is no | t locked. | |
| Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks. | 5 ADDITIONAL FUNC 5.1 Activate/deactivate Check that the keypad is not | e overcooling, overheating | and manual energy saving | 1. 2. | l f | | ₽ ₩ | Touch the DOWN key for 4 s. Touch the UP or DOWN key within | 15 s to select the label " rtc ". |
| In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them. | | Touch the DOWN key. | | 3. | - | SET | | Touch the SET key: the display by the last two figures of the yea | will show the label " yy " followed r. |
| 2 ELECTRICAL CONNECTION | | CONDITION r5 = 0, r8 = 1 and defrost | | 4. | ۲ | | | Touch the UP or DOWN key within | n 15 s to set the year. |
| N.B. - Use cables of an adequate section for the current running through them. - To reduce any electromagnetic interference connect the power cables as far away | overheating | not active r5 and r8 = 1 | r6", for the r7 duration the setpoint becomes "setpoint + r6", for the r7 duration | 5. | LAB. | DESC | | nd 4. to set the next labels. | THE LABEL |
| as possible from the signal cables. | energy saving | r5 = 0 and r8 = 2 | the setpoint becomes "setpoint + r4", at maximum for HE2 duration | | d h | day (time | (01 3 (00 2 | 1) 23) | |
| | 5.2 View/delete HACC | locked. | | 6. | n - | SET | | Touch the SET key: the display whe week. | |
| | 1. Touch the DOWN key for 4 s. 2. Touch the UP or DOWN key within 15 s to select a label. LAB. DESCRIPTION LS view HACCP alarm information rLS delete HACCP alarm information 3. Image: Set Touch the SET key. | | | 7. | | | Touch the UP or DOWN key within 15 s to set the day of the week. | | |
| | | | | | Mon tuE UEd | Tues | | | |
| electric power supply: | | | | | thu Fri | Thur Frida | rsday ay | | |
| electric power supply: programming system 230 VAC in EV3 N7 key 115 VAC in EV3 N5 | 4. COD. DESCRIPTIO | "LS" is selected) or to set "1 | to select an alarm code (when label 49 " (when label " rLS " is selected). | 8. | Sat Sun | Satu Sunc | day | Touch the SET key: the device w | ill ovit the procedure |
| PRECAUTIONS FOR ELECTRICAL CONNECTION If using an electrical or pneumatic screwdriver, adjust the tightening torque. If the device has been moved from a cold to a warm place, the humidity may have | AL low tempera AH high temper id door switch | ature alarm | | 9. | - | () | | Touch the ON/STAND-BY key to | |
| caused condensation to form inside. Wait about an hour before switching on the power. Make sure that the supply voltage, electrical frequency and power are within the set | | alarm (available if module l Touch the SET key. | EVIF23TSX is connected) | 6.3 | Resto | ore the | factor | y settings (default) and store o | ustomized settings as default |
| limits. See the section TECHNICAL SPECIFICATIONS. Disconnect the power supply before doing any type of maintenance. Do not use the device as safety device. | 6. Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. | | | | N.B. - Check that the factory settings are appropriate; see the section COI PARAMETERS. | | | | |
| For repairs and for further information, contact the EVCO sales network. FIRST-TIME | Example of alarm informatio 8.0 | | arm). ulated product temperature) | | | | | stomized settings overwrites the d | efault. |
| 1. Install following the instructions given in the section <i>MEASUREMENTS AND INSTALLA-</i> <i>TION</i> . | Sta (available | was 8.0 °C/°F if module EVIF23TSX is con alarm signalled in 2015 | nected) | 1. 2. | | SET | <u> </u> | Touch the SET key for 4 s: the di Touch the SET key. | splay will show the label " PA ". |
| Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run. The test normally takes a few seconds, when it is finished the display will switch off. | n03 d26 | alarm signalled in March alarm signalled on 26 March alarm signalled at 16:00 | 2015 | 3. | Ý | | | Touch the UP or DOWN key withi | n 15 s to set the value. |
| PAR. DEF. PARAMETER MIN MAX. | n30 dur | alarm signalled at 16:30 | | | VAL. 149 161 | value | | ON store the factory settings (default) ore customized settings as default | |
| SP0.0setpoint $r1r2$ P01probe type0 = PTC1 = NTCP20temperature unit of measurement0 = °C1 = °F | | alarm lasted 1h alarm lasted 1h 15 min | | 4. | | SET | | Touch the SET key (or do not o | perate for 15 s): the display will alue " 149 " is set) or the label |
| Then check that the remaining settings are appropriate; see the section CONFIGURA- TION PARAMETERS. | 5.3 View/delete comp number Check that the keypad is not | - | s and view compressor start-up | 5. | = | SET | | Touch the SET key. | |
| Disconnect the device from the mains. Make the electrical connection as shown in the section <i>ELECTRICAL CONNECTION</i> without powering up the device. | | Touch the DOWN key for 4 s | | 6. | √ | V | ₩ • | , | n 15 s to set " 4 ". perate for 15 s): the display will |
| For the connection in an RS-485 network connect the interface EVIF22TSX or EVIF23TSX, to activate real time functions connect the module EVIF23TSX; see the relevant instruction sheets. | LAB. DESCRIPTIC | Touch the UP or DOWN key N ssor functioning hours (hund | | 7. | Ľ | rupt the | | show for 4 s "" flashing, the dure. r supply to the device. | en the device will exit the proce- |
| Power up the device. USER INTERFACE AND MAIN FUNCTIONS | rCH delete comp | ressor functioning hours (name ressor functioning hours start-up number (thousands | | 9. 9. SET Touch the SET key 2 s before action 6. to exit the procedure beforehand. | | | | tion 6. to exit the procedure be- | |
| energy compressor temperature unit reserved saving service of measurement | 3. a set 4. ✓ | Touch the SET key. Touch the UP or DOWN key | to set " 149 " (when label " rCH " is se- | | | | | PARAMETERS | MIN MAX. |
| | 5. • • • • | lected). Touch the SET key. | | <u></u> | Ν. | SP PAR. | 0.0 DEF. | setpoint ANALOGUE INPUTS | r1 r2 MIN MAX. |
| compressor ← H ☆ defrost ← ☆ ☆ ☆ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ | 6. | Touch the ON/STAND-BY kee the procedure. | y (or do not operate for 60 s) to exit | | 2 3 4 | CA1 CA2 P0 | 0.0 0.0 1 | cabinet probe offset auxiliary probe offset probe type | -25 25 °C/°F -25 25 °C/°F 0 = PTC 1 = NTC |
| HACCP | y 5.4 View the temperature detected by the probes Check that the keypad is not locked. | | | | 5 | P1 P2 | 1 | enable °C decimal point temperature unit of measure ment | 0 = no 1 = yes |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 1. Touch the DOWN key for 4 s. 2. Image: Comparison of the temperature of the temperature of the temperature of the temperature of | | | | 7 | P4 | 0 | configurable input function | 0 = door switch/multi-pur- pose input |
| SET, ON/STAND-BY, DOWN, UP, keypad lock escape additional defrost functions | 2. Y Touch the UP or DOWN key within 15 s to select a label. LAB. DESCRIPTION Pb1 cabinet temperature Pb2 auxiliary temperature (if P4 = 1 or 2) 3. P SET Touch the SET key. | | | | 8 | P5 | 0 | value displayed | 1 = evaporator probe 2 = condenser probe 0 = cabinet temperature |
| | | | | | 9 | P8 | 5 | display refresh time | 1 = setpoint 2 = auxiliary temperature 0 250 s : 10 |
| | | | | 1 | | | | | |



| 3 | View/o | lelete com | pressor functioning hours and view compressor start-up | | | | | | | | |
|--------|----------------------------------|------------------------------------|--|--|--|--|--|--|--|--|--|
| | number | | | | | | | | | | |
| neck t | k that the keypad is not locked. | | | | | | | | | | |
| | | Touch the DOWN key for 4 s. | | | | | | | | | |
| | ŕ | _\∰ ∳ | Touch the UP or DOWN key within 15 s to select a label. | | | | | | | | |
| | LAB. | DESCRIPTIO | DN | | | | | | | | |
| | СН | view compr | essor functioning hours (hundreds) | | | | | | | | |
| | rCH | delete comp | pressor functioning hours | | | | | | | | |
| | nS1 | compressor | start-up number (thousands) | | | | | | | | |
| | a | SET | Touch the SET key. | | | | | | | | |
| | ŕ | _^∰ ∳ ✓ | Touch the UP or DOWN key to set "149" (when label "rCH" is se- lected). | | | | | | | | |
| | | SET | Touch the SET key. | | | | | | | | |
| | | | Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. | | | | | | | | |
| | | he temperat keypad is no | ture detected by the probes t locked. | | | | | | | | |
| • | ' | \checkmark | Touch the DOWN key for 4 s. | | | | | | | | |
| | f | _^∰ ∳ | Touch the UP or DOWN key within 15 s to select a label. | | | | | | | | |
| | LAB. DESCRIPTION | | | | | | | | | | |
| | Pb1 | cabinet tem | perature | | | | | | | | |
| | Pb2 | auxiliary ter | nperature (if P4 = 1 or 2) | | | | | | | | |
| | | SET | Touch the SET key. | | | | | | | | |
| | | | | | | | | | | | |

| EVCO S. | p.A. | EV3121 | Instru | ction sheet ver. 1.0 Code 1043121E10 | 13 Page 2 of 2 PT 23/17 |
|------------|---|---|---|--|---|
| | Ν. | PAR. | DEF. | REGULATION | MIN MAX. |
| | 10 | r0 | 2.0 | setpoint differential | 1 15 °C/°F |
| | | | -50 | | -99 °C/°F r2 |
| | 11 | r1 | | minimum setpoint | |
| | 12 | r2 | 50.0 | maximum setpoint | r1 199 °C/°F |
| | 13 | r4 | 0.0 | setpoint offset in energy saving | 0 99 °C/°F |
| _ | 14 | r5 | 0 | cooling or heating operation | 0 = cooling |
| | 1. | 13 | Ŭ | cooling of ficating operation | |
| | | | | | 1 = heating |
| | 15 | r6 | 0.0 | setpoint offset in overcool- | 0 99 °C/°F |
| | | | | ing/overheating | |
| | 16 | r7 | 30 | overcooling/overheating duration | 0 240 min |
| | | | | | |
| | 17 | r8 | 0 | DOWN key additional function | 0 = disabled |
| | | | | | 1 = overcooling/overheating |
| | | | | | 2 = energy saving |
| | 10 | 12 | - | | |
| | 18 | r12 | 0 | position of the r0 differential | 0 = asymmetric |
| | | | | | 1 = symmetric |
| | N. | PAR. | DEF. | COMPRESSOR | MIN MAX. |
| | 19 | C0 | 0 | compressor on delay after pow- | 0 240 min |
| | 1 | | Ŭ | | |
| | | | | er-on | |
| | 20 | C2 | 3 | compressor off minimum time | 0 240 min |
| | 21 | C3 | 0 | compressor on minimum time | 0 240 s |
| | | | | | |
| ~ | 22 | C4 | 10 | compressor off time during cabi- | 0 240 min |
| | | | | net probe alarm | |
| | 23 | C5 | 10 | compressor on time during cabi- | 0 240 min |
| | | | - | net probe alarm | |
| | | | | | |
| | 24 | C6 | 80.0 | threshold for high condensation | 0 199 °C/°F |
| | | | | warning | differential = 2 °C/4 °F |
| | 25 | C7 | 90.0 | threshold for high condensation | 0 199 °C/°F |
| | 25 | C/ | 90.0 | - | 0 199 C/ 1 |
| | | | | alarm | L |
| | 26 | C8 | 1 | high condensation alarm delay | 0 15 min |
| | 27 | C10 | 0 | compressor hours for service | 0 999 h x 100 |
| | L | 210 | | | |
| | | | | | 0 = disabled |
| | Ν. | PAR. | DEF. | DEFROST (if $r5 = 0$) | MIN MAX. |
| | 28 | d0 | 8 | automatic defrost interval | 0 99 h |
| | | | - I | | |
| | | | | | 0 = only manual |
| | | | | | if d8 = 3, maximum interval |
| | 29 | d2 | 8.0 | threshold for defrost end | -99 99 °C/°F |
| | 30 | d3 | 30 | | 0 99 min |
| | 30 | a3 | 30 | defrost duration | |
| | | | | | se P3 = 1, maximum duration |
| | 31 | d4 | 0 | enable defrost at power-on | 0 = no 1 = yes |
| | | d5 | | | |
| | 32 | | 0 | defrost dealy after power-on | 0 99 min |
| | 33 | d6 | 2 | value displayed during defrost | 0 = cabinet temperature |
| | | | | | 1 = display locked |
| | | | | | 2 = dEF label |
| | | | | | |
| | 34 | d7 | 0 | dripping time | 0 15 min |
| | 35 | d8 | 0 | defrost interval counting mode | 0 = device on hours |
| | | | | - | 1 = compressor on hours |
| | | | | | |
| | | | | | 2 = hours evaporator tem- |
| | | | | | perature < d9 |
| | | | | | 3 = adaptive |
| | | | | | |
| | | | | | 4 = roal time |
| ۵, | | | | | 4 = real time |
| • | 36 | d9 | 0.0 | evaporation threshold for auto- | 4 = real time -99 99 °C/°F |
| ۰. | 36 | d9 | 0.0 | evaporation threshold for auto- matic defrost interval counting | |
| • | | | | matic defrost interval counting | -99 99 °C/°F |
| ٠. | 37 | d11 | 0 | matic defrost interval counting enable defrost timeout alarm | -99 99 °C/°F 0 = no 1 = yes |
| ٠. | | | | matic defrost interval counting | -99 99 °C/°F |
| ٠. | 37 | d11 | 0 | matic defrost interval counting enable defrost timeout alarm | -99 99 °C/°F 0 = no 1 = yes |
| ٠. | 37 | d11 | 0 | matic defrost interval counting enable defrost timeout alarm | -99 99 °C/°F 0 = no 1 = yes 0 999 min |
| ٠. | 37 | d11 | 0 | matic defrost interval counting enable defrost timeout alarm | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 |
| • | 37 38 | d11 d18 | 0 40 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual |
| • | 37 | d11 | 0 | matic defrost interval counting enable defrost timeout alarm | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 |
| • | 37 38 | d11 d18 | 0 40 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual |
| • | 37 38 | d11 d18 | 0 40 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation | $\begin{array}{rrrr} -99 & 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0 & 999 \ ^{\circ}min & \\ if compressor on + evapora- \\ tor temperature < d22 & \\ 0 &= only \ ^{\circ}manual \\ 0 & 40 \ ^{\circ}C/^{\circ}F \\ optimal \ evaporation \ tempera- \end{array}$ |
| • | 37 38 39 | d11 d18 d19 | 0 40 3.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) | $\begin{array}{rrrr} -99 & 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0 & 999 \ ^{\circ}min \\ if compressor on + evapora-tor temperature < d22 \\ 0 &= only manual \\ 0 & 40 \ ^{\circ}C/^{\circ}F \\ optimal evaporation tempera-ture - d19 \end{array}$ |
| . | 37 38 | d11 d18 | 0 40 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{\circ}min \\ \text{if compressor on } + \ ^{\circ}evapora- \\ \text{tor temperature } < d22 \\ 0 &= only \ ^{\circ}manual \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - d19 \\ \hline 0999 \ ^{\circ}min \end{array}$ |
| • . | 37 38 39 | d11 d18 d19 | 0 40 3.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) | $\begin{array}{rrrr} -99 & 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0 & 999 \ ^{\circ}min \\ if compressor on + evapora-tor temperature < d22 \\ 0 &= only manual \\ 0 & 40 \ ^{\circ}C/^{\circ}F \\ optimal evaporation tempera-ture - d19 \end{array}$ |
| . | 37 38 39 | d11 d18 d19 | 0 40 3.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time | $\begin{array}{rrrr} -99 & 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0 & 999 \ ^{\circ}min \\ \text{if compressor on } + \ ^{\circ}evapora- \\ \text{tor temperature } < d22 \\ \hline 0 &= only \ ^{\circ}manual \\ 0 & 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - d19 \\ \hline 0 & 999 \ ^{\circ}min \end{array}$ |
| ۵. | 37 38 39 40 | d11 d18 d19 d20 | 0 40 3.0 180 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no \qquad 1 &= yes \\ \hline 0999 \ ^{nin} \\ \text{if compressor on } + \ evapora- \\ \text{tor temperature } < d22 \\ \hline 0 &= only \ ^{nanual} \\ \hline 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - \ ^{d19} \\ \hline 0 &= \ ^{disabled} \\ \hline 0 &= \ ^{disabled} \\ \hline 0 &= \ ^{los}00 \ ^{los}nin \end{array}$ |
| . | 37 38 39 40 | d11 d18 d19 d20 | 0 40 3.0 180 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{min} \\ \text{if compressor on } + \ ^{e}vapora- \\ \text{tor temperature } < d22 \\ 0 &= only \ ^{manual} \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - \ ^{d19} \\ 0 &= \ ^{disabled} \\ 0 &= \ ^{disabled} \\ 0500 \ ^{min} \\ \text{if (cabinet temperature - set- } \end{array}$ |
| . | 37 38 39 40 | d11 d18 d19 d20 | 0 40 3.0 180 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{min} \\ \text{if compressor on } + \ evapora- \\ \text{tor temperature} < d22 \\ 0 &= only \ ^{manual} \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - d19 \\ 0999 \ ^{min} \\ 0 &= disabled \\ 0500 \ ^{min} \\ \text{if (cabinet temperature - set- \\ point) > 10^{\circ}C/20 \ ^{\circ}F \end{array}$ |
| . | 37 38 39 40 | d11 d18 d19 d20 | 0 40 3.0 180 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{min} \\ \text{if compressor on } + \ ^{e}vapora- \\ \text{tor temperature } < d22 \\ 0 &= only \ ^{manual} \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - \ ^{d19} \\ 0 &= \ ^{disabled} \\ 0 &= \ ^{disabled} \\ 0500 \ ^{min} \\ \text{if (cabinet temperature - set- } \end{array}$ |
| . | 37 38 39 40 | d11 d18 d19 d20 | 0 40 3.0 180 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{min} \\ \text{if compressor on } + \ evapora- \\ \text{tor temperature} < d22 \\ 0 &= only \ ^{manual} \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation tempera- } \\ \text{ture } - d19 \\ 0999 \ ^{min} \\ 0 &= disabled \\ 0500 \ ^{min} \\ \text{if (cabinet temperature - set- \\ point) > 10^{\circ}C/20 \ ^{\circ}F \end{array}$ |
| . | 37 38 39 40 41 | d11 d18 d19 d20 d21 | 0 40 3.0 180 200 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost for defrost after power-on and overcooling evaporation threshold for adap- | $\begin{array}{rrrr} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ \hline 0 999 \ ^{nin} \\ \text{if compressor on } + \ evaporation temperature < d22 \\ \hline 0 &= only \ ^{nanual} \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } - d19 \\ \hline 0 999 \ ^{nin} \\ \hline 0 &= \ ^{o}disabled \\ \hline 0 500 \ ^{nin} \\ \text{if (cabinet temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= \ ^{o}disabled \\ \hline -10 10 \ ^{\circ}C/^{\circ}F \end{array}$ |
| • . | 37 38 39 40 41 | d11 d18 d19 d20 d21 | 0 40 3.0 180 200 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F |
| • . | 37 38 39 40 41 | d11 d18 d19 d20 d21 | 0 40 3.0 180 200 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation | $\begin{array}{rrrr} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ \hline 0 999 \ ^{nin} \\ \text{if compressor on } + \ evaporation temperature < d22 \\ \hline 0 &= only \ ^{nanual} \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } - d19 \\ \hline 0 999 \ ^{nin} \\ \hline 0 &= \ ^{o}disabled \\ \hline 0 500 \ ^{nin} \\ \text{if (cabinet temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= \ ^{o}disabled \\ \hline -10 10 \ ^{\circ}C/^{\circ}F \end{array}$ |
| • | 37 38 39 40 41 | d11 d18 d19 d20 d21 | 0 40 3.0 180 200 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F |
| • | 37 38 39 40 41 | d11 d18 d19 d20 d21 | 0 40 3.0 180 200 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F |
| •• | 37 38 39 40 41 42 N. | d11 d18 d19 d20 d21 d22 d22 | 0 40 3.0 180 200 -2.0 DEF. | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. |
| • | 37 38 39 40 41 | d11 d18 d19 d20 d21 d22 | 0 40 3.0 180 200 -2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ 0999 min \\ if compressor on + evaporator tor temperature < d22 \\ 0 &= only manual \\ 040 \circ C/\circ F \\ optimal evaporation temperature - d19 \\ 0999 min \\ 0 &= disabled \\ 0500 min \\ if (cabinet temperature - set-point) > 10^\circ C/20 \circ F \\ 0 &= disabled \\ -1010 \circ C/\circ F \\ optimal evaporation temperature + d22 \\ \hline MIN MAX. \\ 0 &= cabinet temperature \end{array}$ |
| • | 37 38 39 40 41 42 N. 43 | d11 d18 d19 d20 d21 d22 d22 PAR. AA | 0 40 3.0 180 200 -2.0 DEF. 0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms | $\begin{array}{rrrr} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ \hline 0 999 \ ^{min} \\ \text{if compressor on } + \ ^{evaporation} \\ \text{tor temperature } < d22 \\ \hline 0 &= only \ ^{manual} \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } \\ \text{due of the temperature } \\ \text{due of the temperature } \\ \text{out of temperature } \\ out o$ |
| • | 37 38 39 40 41 42 N. | d11 d18 d19 d20 d21 d22 d22 | 0 40 3.0 180 200 -2.0 DEF. | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ 0999 min \\ if compressor on + evaporator tor temperature < d22 \\ 0 &= only manual \\ 040 \circ C/\circ F \\ optimal evaporation temperature - d19 \\ 0999 min \\ 0 &= disabled \\ 0500 min \\ if (cabinet temperature - set-point) > 10^\circ C/20 \circ F \\ 0 &= disabled \\ -1010 \circ C/\circ F \\ optimal evaporation temperature + d22 \\ \hline MIN MAX. \\ 0 &= cabinet temperature \end{array}$ |
| • | 37 38 39 40 41 42 N. 43 | d11 d18 d19 d20 d21 d22 d22 PAR. AA | 0 40 3.0 180 200 -2.0 DEF. 0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature | $\begin{array}{rrrr} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 &= no & 1 &= yes \\ \hline 0 999 \ ^{min} \\ \text{if compressor on } + \ ^{evaporation} \\ \text{tor temperature } < d22 \\ \hline 0 &= only \ ^{manual} \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } \\ \text{due of the temperature } \\ \text{due of the temperature } \\ \text{out of temperature } \\ out o$ |
| • | 37 38 39 40 41 41 42 N. 43 44 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm | $\begin{array}{rrrr} -9999 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{\text{min}} \\ \text{if compressor on } + \ ^{\text{evapora-}} \\ \text{tor temperature } < d22 \\ 0 &= \ ^{\circ}\text{only manual} \\ \hline 0 40 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \text{optimal evaporation tempera-} \\ \text{ture } - \ ^{d19} \\ \hline 0 999 \ ^{\text{min}} \\ 0 &= \ ^{disabled} \\ \hline 0 500 \ ^{\text{min}} \\ \text{if (cabinet temperature - set-} \\ \text{point) } > \ ^{10^{\circ}\text{C/}^{\circ}\text{F}} \\ \text{optimal evaporation tempera-} \\ \text{ture + } \ ^{d22} \\ \hline \\ \hline \text{MIN MAX.} \\ 0 &= \ ^{\text{cabinet temperature}} \\ 1 &= \ ^{\text{auxiliary temperature}} \\ \hline -9999 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \hline \end{array}$ |
| • | 37 38 39 40 41 42 N. 43 | d11 d18 d19 d20 d21 d22 d22 PAR. AA | 0 40 3.0 180 200 -2.0 DEF. 0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature | $\begin{array}{r} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no \qquad 1 = yes \\ 0 999 min \\ \text{if compressor on } + evaporation tor temperature < d22 \\ 0 = only manual \\ 0 40 \ ^{\circ}C/^{\circ}F \\ optimal evaporation temperature - d19 \\ 0 909 min \\ 0 = disabled \\ 0 500 min \\ \text{if (cabinet temperature - set-point) > 10^{\circ}C/20 \ ^{\circ}F \\ 0 = disabled \\ -10 10 \ ^{\circ}C/^{\circ}F \\ optimal evaporation temperature \\ 1 = auxiliary temperature \\ 1 = auxiliary temperature \\ -99 99 \ ^{\circ}C/^{\circ}F \\ 0 = disabled \\ \hline \end{array}$ |
| • | 37 38 39 40 41 41 42 N. 43 44 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm | $\begin{array}{rrrr} -9999 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \hline 0 &= no & 1 &= yes \\ 0999 \ ^{\text{min}} \\ \text{if compressor on } + \ ^{\text{evapora-}} \\ \text{tor temperature } < d22 \\ 0 &= \ ^{\circ}\text{only manual} \\ \hline 0 40 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \text{optimal evaporation tempera-} \\ \text{ture } - \ ^{d19} \\ \hline 0 999 \ ^{\text{min}} \\ 0 &= \ ^{disabled} \\ \hline 0 500 \ ^{\text{min}} \\ \text{if (cabinet temperature - set-} \\ \text{point) } > \ ^{10^{\circ}\text{C/}^{\circ}\text{F}} \\ \text{optimal evaporation tempera-} \\ \text{ture + } \ ^{d22} \\ \hline \\ \hline \text{MIN MAX.} \\ 0 &= \ ^{\text{cabinet temperature}} \\ 1 &= \ ^{\text{auxiliary temperature}} \\ \hline -9999 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \hline \end{array}$ |
| • | 37 38 39 40 41 41 42 N. 43 44 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 909 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/20 °F 0 = disabled -10 10 °C/PF optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 0 = disabled 1 = relative to setpoint |
| • | 37 38 39 40 41 41 42 83 44 45 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 A2 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ \hline 0999 min & \\ \mbox{if compressor on + evaporator tor temperature < d22 & 0 \\ \hline 0 &= only manual & \\ \hline 040 \circ C/\circ F & \\ \mbox{optimal evaporation temperature - d19 } \\ \hline 0999 min & \\ 0 &= disabled & \\ \hline 0500 min & \\ \mbox{if (cabinet temperature - set-point) > 10^\circ C/20 \circ F & \\ 0 &= disabled & \\ \mbox{-1010 } \circ C/20 \circ F & \\ \mbox{optimal evaporation temperature + d22 & \\ \hline MINMAX. & \\ 0 &= cabinet temperature & \\ \mbox{1 = auxiliary temperature } & \\ \mbox{-9999 } \circ C/\circ F & \\ \hline 0 &= disabled & \\ \mbox{1 = relative to setpoint } & \\ \mbox{2 = absolute & \\ \end{array}$ |
| • | 37 38 39 40 41 41 42 N. 43 44 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 909 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/20 °F 0 = disabled -10 10 °C/PF optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint |
| • | 37 38 39 40 41 41 42 83 44 45 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 A2 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ \hline 0999 min & \\ \mbox{if compressor on + evaporator tor temperature < d22 & 0 \\ \hline 0 &= only manual & \\ \hline 040 \circ C/\circ F & \\ \mbox{optimal evaporation temperature - d19 } \\ \hline 0999 min & \\ 0 &= disabled & \\ \hline 0500 min & \\ \mbox{if (cabinet temperature - set-point) > 10^\circ C/20 \circ F & \\ 0 &= disabled & \\ \hline -1010 \circ C/20 \circ F & \\ \mbox{optimal evaporation temperature + d22 } \\ \hline MIN MAX. & \\ 0 &= cabinet temperature & \\ 1 &= auxiliary temperature & \\ \hline -9999 \circ C/\circ F & \\ \hline 0 &= disabled & \\ 1 &= relative to setpoint & \\ 2 &= absolute & \\ \end{array}$ |
| • | 37 38 39 40 41 41 42 83 44 45 | d11 d18 d19 d20 d21 d22 d22 PAR. AA A1 A2 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ \hline 0999 min & \\ \mbox{if compressor on + evaporator tor temperature < d22 & 0 \\ \hline 0 &= only manual & \\ \hline 040 \circ C/\circ F & \\ \mbox{optimal evaporation temperature - d19 } \\ \hline 0999 min & \\ 0 &= disabled & \\ \hline 0500 min & \\ \mbox{if (cabinet temperature - set-point) > 10^\circ C/20 \circ F & \\ 0 &= disabled & \\ \hline -1010 \circ C/20 \circ F & \\ \mbox{optimal evaporation temperature + d22 } \\ \hline MIN MAX. & \\ 0 &= cabinet temperature & \\ 1 &= auxiliary temperature & \\ \hline -9999 \circ C/\circ F & \\ \hline 0 &= disabled & \\ 1 &= relative to setpoint & \\ 2 &= absolute & \\ \end{array}$ |
| • | 37 38 39 40 41 41 42 42 43 44 45 46 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | $\begin{array}{r} -9999 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \hline 0 = no \qquad 1 = yes \\ 0999 \ ^{\text{min}} \\ \text{if compressor on + evapora-} \\ \text{tor temperature < d22} \\ 0 = only \ ^{\text{manual}} \\ 040 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \text{optimal evaporation tempera-} \\ \text{ture - d19} \\ 0999 \ ^{\text{min}} \\ 0 = \text{disabled} \\ 0500 \ ^{\text{min}} \\ \text{if (cabinet temperature - set-} \\ \text{point) > 10^{\circ}\text{C/}^{20} \ ^{\circ}\text{F} \\ 0 = \text{disabled} \\ -1010 \ ^{\circ}\text{C/}^{\circ}\text{F} \\ \text{optimal evaporation tempera-} \\ \text{ture + d22} \\ \hline \\ $ |
| • | 37 38 39 40 41 41 42 42 43 44 45 46 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no & 1 = yes \\ 0999 \ ^{min} \\ \text{if compressor on } + evaporation tor temperature < d22 \\ 0 = only manual \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } -d19 \\ 0999 \ ^{min} \\ 0 = disabled \\ 0500 \ ^{min} \\ \text{if (cabinet temperature } -set-point) > 10^{\circ}C/^{2}O \ ^{\circ}F \\ 0 = disabled \\ -10 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } \\ 1 = auxiliary temperature \\ 1 = auxiliary temperature \\ -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 1 = relative to s$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 | d11 d18 d19 d20 d21 d22 d22 d22 d22 A4 A1 A2 A4 A5 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | -99 99 °C/°F $0 = no 1 = yes$ $0 999 min$ if compressor on + evapora- tor temperature < d22 $0 = only manual$ $0 40 °C/°F$ optimal evaporation tempera- ture - d19 $0 999 min$ $0 = disabled$ $0 500 min$ if (cabinet temperature - set- point) > 10°C/20 °F $0 = disabled$ $-10 10 °C/PF$ optimal evaporation tempera- ture + d22 $MIN MAX.$ $0 = cabinet temperature$ $1 = auxiliary temperature$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ |
| • | 37 38 39 40 41 41 42 42 43 44 45 46 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- | $\begin{array}{rrrr} -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no & 1 = yes \\ 0999 \ ^{min} \\ \text{if compressor on } + evaporation tor temperature < d22 \\ 0 = only manual \\ 040 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } -d19 \\ 0999 \ ^{min} \\ 0 = disabled \\ 0500 \ ^{min} \\ \text{if (cabinet temperature } -set-point) > 10^{\circ}C/^{2}O \ ^{\circ}F \\ 0 = disabled \\ -10 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature } \\ 1 = auxiliary temperature \\ 1 = auxiliary temperature \\ -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ -9999 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 1 = relative to s$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 | d11 d18 d19 d20 d21 d22 d22 d22 d22 A4 A1 A2 A4 A5 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type | -99 99 °C/°F $0 = no 1 = yes$ $0 999 min$ if compressor on + evapora- tor temperature < d22 $0 = only manual$ $0 40 °C/°F$ optimal evaporation tempera- ture - d19 $0 999 min$ $0 = disabled$ $0 500 min$ if (cabinet temperature - set- point) > 10°C/20 °F $0 = disabled$ $-10 10 °C/PF$ optimal evaporation tempera- ture + d22 $MIN MAX.$ $0 = cabinet temperature$ $1 = auxiliary temperature$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 | d11 d18 d19 d20 d21 d22 d22 d22 d22 A4 A1 A2 A4 A5 | 0 40 3.0 180 200 -2.0 DEF. 0 -10.0 1 10.0 1 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on | -99 99 °C/°F $0 = no 1 = yes$ $0 999 min$ if compressor on + evapora- tor temperature < d22 $0 = only manual$ $0 40 °C/°F$ optimal evaporation tempera- ture - d19 $0 999 min$ $0 = disabled$ $0 500 min$ if (cabinet temperature - set- point) > 10°C/20 °F $0 = disabled$ $-10 10 °C/PF$ optimal evaporation tempera- ture + d22 $MIN MAX.$ $0 = cabinet temperature$ $1 = auxiliary temperature$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ |
| • | 37 38 39 40 41 41 42 42 43 44 45 45 46 47 48 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 1 10.0 1 2 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms delay af- | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ \hline 0999 min \\ \mbox{if compressor on + evaporator tor temperature < d22 \\ \hline 0 &= only manual \\ \hline 040 \circ C/\circ F \\ \mbox{optimal evaporation temperature - d19 \\ \hline 0999 min \\ \hline 0 &= disabled \\ \hline 0500 min \\ \mbox{if (cabinet temperature - set-point) > 10^\circ C/20 \circ F \\ \hline 0 &= disabled \\ \hline -1010 \circ C/20 \circ F \\ \mbox{optimal evaporation temperature + d22 \\ \hline MIN MAX. \\ \hline 0 &= cabinet temperature \\ 1 &= auxiliary temperature \\ \hline -9999 \circ C/\circ F \\ \hline 0 &= disabled \\ 1 &= relative to setpoint \\ 2 &= absolute \\ \hline -9999 \circ C/\circ F \\ \hline 0 &= disabled \\ 1 &= relative to setpoint \\ 2 &= absolute \\ \hline -9999 min \times 10 \\ \hline \end{array}$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 48 49 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 12 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay | $\begin{array}{r} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no 1 = yes \\ \hline 0 999 min \\ \text{if compressor on + evaporator tor temperature < d22 \\ \hline 0 = only manual \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ \hline 0 999 min \\ \hline 0 = disabled \\ \hline 0 500 min \\ \text{if (cabinet temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ -10 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d22 \\ \hline MIN MAX. \\ \hline 0 = cabinet temperature \\ 1 = auxiliary temperature \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ 1 = relative to setpoint \\ 2 = a$ |
| • | 37 38 39 40 41 41 42 42 43 44 45 45 46 47 48 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 | 0 40 3.0 200 -2.0 DEF. 0 -10.0 1 10.0 1 2 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms de- lay | $\begin{array}{rrrr} -9999 \circ C/\circ F \\ \hline 0 &= no & 1 &= yes \\ \hline 0999 min \\ \mbox{if compressor on + evaporator tor temperature < d22 \\ \hline 0 &= only manual \\ \hline 040 \circ C/\circ F \\ \mbox{optimal evaporation temperature - d19 \\ \hline 0999 min \\ \hline 0 &= disabled \\ \hline 0500 min \\ \mbox{if (cabinet temperature - set-point) > 10^\circ C/20 \circ F \\ \hline 0 &= disabled \\ \hline -1010 \circ C/20 \circ F \\ \mbox{optimal evaporation temperature + d22 \\ \hline MIN MAX. \\ \hline 0 &= cabinet temperature \\ 1 &= auxiliary temperature \\ \hline -9999 \circ C/\circ F \\ \hline 0 &= disabled \\ 1 &= relative to setpoint \\ 2 &= absolute \\ \hline -9999 \circ C/\circ F \\ \hline 0 &= disabled \\ 1 &= relative to setpoint \\ 2 &= absolute \\ \hline -9999 min x 10 \\ \hline \end{array}$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 48 49 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 12 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay | $\begin{array}{r} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no 1 = yes \\ \hline 0 999 min \\ \text{if compressor on + evaporator tor temperature < d22 \\ \hline 0 = only manual \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ \hline 0 999 min \\ \hline 0 = disabled \\ \hline 0 500 min \\ \text{if (cabinet temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ -10 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d22 \\ \hline MIN MAX. \\ \hline 0 = cabinet temperature \\ 1 = auxiliary temperature \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ 1 = relative to setpoint \\ 2 = a$ |
| • | 37 38 39 40 41 42 N. 43 44 45 46 47 48 49 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 12 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms delay high temperature alarm delay af- ter defrost | -99 99 °C/°F $0 = no 1 = yes$ $0 999 min$ if compressor on + evapora- tor temperature < d22 0 = only manual $0 40 °C/°F$ optimal evaporation tempera- ture - d19 0 909 min $0 = disabled$ $0 500 min$ if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled $-10 10 °C/°F$ optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature $1 = auxiliary temperature$ $1 = auxiliary temperature$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $0 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $0 99 min x 10$ $0 240 min$ $0 240 min$ |
| • | 37 38 39 40 41 41 42 42 43 44 45 44 45 46 47 48 49 50 | d11 d18 d19 d20 d21 d22 d22 d22 d22 d22 d22 d22 d22 d23 d23 | 0 40 3.0 200 -2.0 -2.0 0 -10.0 1 10.0 1 12 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarms delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost | $\begin{array}{r} -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = no 1 = yes \\ \hline 0 999 min \\ \text{if compressor on + evaporator tor temperature < d22 \\ \hline 0 = only manual \\ \hline 0 40 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ \hline 0 999 min \\ \hline 0 = disabled \\ \hline 0 500 min \\ \text{if (cabinet temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - set-point) > 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d19 \\ -10 10 \ ^{\circ}C/^{\circ}F \\ \text{optimal evaporation temperature - d22 \\ \hline MIN MAX. \\ \hline 0 = cabinet temperature \\ 1 = auxiliary temperature \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ -99 99 \ ^{\circ}C/^{\circ}F \\ \hline 0 = disabled \\ 1 = relative to setpoint \\ 2 = absolute \\ 1 = relative to setpoint \\ 2 = a$ |
| • | 37 38 39 40 41 41 42 43 44 45 45 46 47 45 47 48 49 50 51 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 | 0 40 3.0 180 200 -2.0 -2.0 0 -10.0 1 10.0 1 12 15 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/?F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = nelative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min |
| • | 37 38 39 40 41 41 42 42 43 44 45 44 45 46 47 48 49 50 | d11 d18 d19 d20 d21 d22 d22 d22 d22 d22 d22 d22 d22 d23 d23 | 0 40 3.0 200 -2.0 -2.0 0 -10.0 1 10.0 1 12 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarms delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost | -99 99 °C/°F $0 = no 1 = yes$ $0 999 min$ if compressor on + evapora- tor temperature < d22 0 = only manual $0 40 °C/°F$ optimal evaporation tempera- ture - d19 0 909 min $0 = disabled$ $0 500 min$ if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled $-10 10 °C/°F$ optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature $1 = auxiliary temperature$ $1 = auxiliary temperature$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $-99 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $0 99 °C/°F$ $0 = disabled$ $1 = relative to setpoint$ $2 = absolute$ $0 99 min x 10$ $0 240 min$ $0 240 min$ |
| • | 37 38 39 40 41 41 42 43 44 45 45 46 47 45 47 48 49 50 51 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 10.0 1 12 15 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/?F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = nelative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min |
| • | 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 12 15 15 15 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter dor closing power failure duration for alarm recording | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 0 240 min |
| • | 37 38 39 40 41 41 42 43 44 45 45 46 47 45 47 48 49 50 51 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 10.0 1 12 15 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm high/low temperature alarms re | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/?F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = nelative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min |
| • | 37 38 39 40 41 42 42 43 44 45 44 45 46 47 48 49 50 51 52 53 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 | 0 40 3.0 180 200 -2.0 -2.0 1 -10.0 1 1 10.0 1 1 15 15 15 15 10 2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = auxiliary temperature 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 1 15 °C/°F |
| • | 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 | 0 40 3.0 180 200 -2.0 -2.0 -10.0 1 10.0 1 12 15 15 15 15 15 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm high/low temperature alarms re | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 0 240 min |
| • | 37 38 39 40 41 42 42 43 44 45 44 45 46 47 48 49 50 51 52 53 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 | 0 40 3.0 180 200 -2.0 -2.0 1 -10.0 1 1 10.0 1 1 15 15 15 15 10 2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = auxiliary temperature 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 1 15 °C/°F |
| • | 37 38 39 40 41 42 42 43 44 45 44 45 46 47 48 49 50 51 52 53 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 | 0 40 3.0 180 200 -2.0 -2.0 1 -10.0 1 1 10.0 1 1 15 15 15 15 10 2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter defrost high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/?F optimal evaporation tempera- ture + d22 <u>MIN MAX.</u> 0 = cabinet temperature 1 = auxiliary temperature 1 = nelative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED + PF label + |
| • | 37 38 39 40 41 42 42 43 44 45 44 45 46 47 48 49 50 51 52 53 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 | 0 40 3.0 180 200 -2.0 -2.0 1 -10.0 1 1 10.0 1 1 15 15 15 15 10 2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter defrost high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 = disabled 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = cabinet temperature 1 = auxiliary temperature 1 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED 1 = HACCP LED 1 = HACCP LED + PF label + buzzer |
| • | 37 38 39 40 41 42 42 43 44 45 44 45 46 47 48 49 50 51 52 53 | d11 d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 | 0 40 3.0 180 200 -2.0 -2.0 1 -10.0 1 1 10.0 1 1 15 15 15 15 10 2.0 | matic defrost interval counting enable defrost timeout alarm adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter defrost high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential power failure alarm notification | -99 99 °C/°F 0 = no 1 = yes 0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (cabinet temperature - set- point) > 10°C/20 °F 0 = disabled -10 10 °C/?F optimal evaporation tempera- ture + d22 <u>MIN MAX.</u> 0 = cabinet temperature 1 = auxiliary temperature 1 = nelative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min 1 15 °C/°F 0 = HACCP LED + PF label + |

| 2 | Ν. | PAR. | DEF. | ENERGY SAVING (if $r5 = 0$) | MIN MAX. |
|----------|------|------|----------|--|---|
| - | 64 | HE2 | 0 | energy saving maximum duration | 0999 min 0 = until the door opening |
| | N. | PAR. | DEF. | REAL TIME ENERGY SAVING (if $r5 = 0$) | MIN MAX. |
| | 65 | H01 | 0 | energy saving time | 0 23 h |
| Θ | 66 | H02 | 0 | energy saving duration | 0 24 h |
| * | 67 | HEd | 7 | energy saving day | 0 = Monday 1 = Tuesday |
| | 07 | 11LU | <i>'</i> | energy saving day | 2 = Wednesday |
| | | | | | 3 = Thursday 4 = Friday |
| | | | | | 5 = Saturday 6 = Sunday |
| | | | | | 7 = none |
| | Ν. | PAR. | DEF. | REAL TIME DEFROST (if d8 = 4) | MIN MAX. |
| | 68 | Hd1 | h- | 1st daily defrost time | h- = disabled |
| ۸D | 69 | Hd2 | h- | 2nd daily defrost time | h- = disabled |
| | 70 | Hd3 | h- | 3rd daily defrost time | h- = disabled |
| | 71 | Hd4 | h- | 4th daily defrost time | h-= disabled |
| | 72 | Hd5 | h- | 5th daily defrost time | h- = disabled |
| | 73 | Hd6 | h- | 6th daily defrost time | h- = disabled |
| | Ν. | PAR. | DEF. | SAFETIES | MIN MAX. |
| \odot | 74 | POF | 0 | enable ON/STAND-BY key | 0 = no 1 = yes |
| ~ | 75 | PAS | -19 | password | -99 999 |
| (4) | Ν. | PAR. | DEF. | REAL TIME CLOCK | MIN MAX. |
| \smile | 76 | Hr0 | 0 | enable clock | 0 = no 1 = yes |
| | Ν. | PAR. | DEF. | MODBUS | MIN MAX. |
| | 77 | LA | 247 | MODBUS address | 1 247 |
| ld | 78 | Lb | 2 | MODBUS baud rate | 0 = 2,400 baud |
| Ia | | | | | 1 = 4,800 baud |
| | | | | | 2 = 9,600 baud |
| | | | | | 3 = 19,200 baud |
| | | | | | parity even |
| | | | | | |
| 8 | ALAF | RMS | | | |

COD. DESCRIPTION RESET REMEDIES Pr1 cabinet probe alarm automatic check P0 Pr2 auxiliary probe alarm check probe integrity automatic check electrical connection rtc clock alarm manual set date, time and day of the week low temperature alarm check AA, A1 and A2 AL automatic AH high temperature alarm check AA, A4 and A5 automatic check i0 e i1 id open door alarm automatic PF power failure alarm manual touch a key - check electrical connection COH high condensation warning automatic check C6 CSd high condensation alarm manual switch the device off and on check C7 multi-purpose input alarm automatic check i0 and i1 iA check i0 and i1 Cth compressor thermal switch automatic alarm th global thermal switch alarm manual switch the device off and on check i0 and i1 dFd defrost timeout alarm manual touch a key check d2, d3 and d11

9 TECHNICAL SPECIFICATIONS

| | | | I | | | | |
|----------------------------|---------------------|-----------------|---|------------------------|----------|--|--|
| | e control device | | Function contro | | | | |
| Construction of | of the control dev | ice | Built-in electronic device | | | | |
| Container | | | Black, self-exti | nguishing | | | |
| Category of h | eat and fire resist | tance | D | | | | |
| Measurement | S | | | | | | |
| 75.0 x 33.0 x | 59.0 mm (2 15 | /16 x 1 5/16 x | 75.0 x 33.0 x | 81.5 mm (2 15/16 x 1 | 5/16 x | | |
| 2 5/16 in) wit | h fixed screw ter | minal blocks | 3 3/16 in) wi blocks | th removable screw t | erminal: | | |
| Mounting met | hods for the cont | rol device | To be fitted to vided | a panel, snap-in brack | ets pro- | | |
| Degree of pro | otection provided | by the cover- | IP65 (front) | | | | |
| Connection m | ethod | | | | | | |
| Fixed screw | terminal blocks | Removable s | crew terminal | Micro-MaTch connecto | r | | |
| for wires up to | o 2,5 mm² | blocks for | wires up to | | | | |
| | | 2,5 mm²; by r | equest | | | | |
| Maximum per | mitted length for | connection cabl | es | | | | |
| Power supply: | 10 m (32.8 ft) | | Analogue input | s: 10 m (32.8 ft) | | | |
| Digital inputs: | 10 m (32.8 ft) | | Digital outputs: | : 10 m (32.8 ft) | | | |
| Operating ten | nperature | | From 0 to 55 °C (from 32 to 131 °F) | | | | |
| Storage temp | erature | | From -25 to 70 °C (from -13 to 158 °F) | | | | |
| Operating humidity | | | Relative humidity without condensate from 10 to 90% | | | | |
| Pollution statu | is of the control o | device | 2 | | | | |
| Conformity | | | • | | | | |
| RoHS 2011/6 | 5/CE | WEEE 2012/19 | 9/EU REACH (EC) Regulation 1907/2006 | | | | |
| EMC 2014/30 | /UE | • | LVD 2014/35/L | JE | | | |
| Power supply | | | • | | | | |
| 230 VAC (+10 | 0% -15%), 50/60 |) Hz (±3 Hz), m | ax. 2 VA insulate | d in EV3 N7 | | | |
| 115 VAC (+10 | 0% -15%), 50/60 |) Hz (±3 Hz), m | ax. 2 VA insulate | d in EV3 N5 | | | |
| | nods for the contr | | None | | | | |
| Rated impulse | e-withstand volta | ge | 4 KV | | | | |
| Over-voltage | category | - | III | | | | |
| Software class | s and structure | | A | | | | |
| Analogue inpu | ıts | | 1 for PTC or NTC probes (cabinet probe) | | | | |
| PTC probes | Sensor type | | KTY 81-121 (990 Ω @ 25 °C, 77 °F) | | | | |
| | Measurement | field | From -50 to 150 °C (from -58 to 302 °F) | | | | |
| | Resolution | | 0.1 °C (1 °F) | | | | |
| NTC probes | Sensor type | | | 2 @ 25 °C, 77 °F) | | | |
| | Measurement | field | From -40 to 105 °C (from -40 to 221 °F) | | | | |
| | Resolution | | 0.1 °C (1 °F) | | | | |
| Other inputs Input configu | | | rable for analogue input (auxiliary probe) or | | | | |

| N. PAR. DEF. DIGTHAL INPUTS MIN MAX. 56 10 1 door switch/multi-purpose input function 0 = none 1 = compressor off 2 = reserved Contact type 5 VDC, 1.5 mA 7 1 0 activation 1 = energy saving 8 = iA alarm 9 = device on/off 10 = Cth alarm 1 electro-mechanical relay (Compressor relay) Compressor relay (K1) SPST, 16 A res. @ 250 VAC 7 11 0 door switch/multi-purpose input activation 0 = with contact closed 1 = th alarm 3 digits custom display, with function cose Alarm buzzer Additional features of Type 1 or Type 2 ac Communication ports C 57 11 0 door switch/multi-purpose input 0 = with contact closed 1 = th alarm 1 = with contact closed 1 = th alarm 3 digits custom display, with function cose Alarm buzzer 58 12 30 open door alarm delay -1 120 min -1 | | 55 | A13 | 0 | enable alarm buzzer | 0 = no 1 = yes | Other inputs | | onfigurable for analogue input (auxiliary p | | | |
|---|----|-------|------|------|---------------------------------|---------------------------------------|-------------------------------|------------------|---|------------------------|---------------------------------|--|
| Jo Jo Loos and the physic input of power supply None 1 = compressor off 2 = reserved None None 2 = reserved 3 = reserved None None 3 = reserved 3 = reserved I electro-mechanical relay (compressor relay) None 4 = reserved 5 = reserved Type 1 SPST, 16 A res. @ 250 VAC Type 1 7 = nergy saving 8 = Alarm 9 device on/off Io Compressor relay (K1) SPST, 16 A res. @ 250 VAC Type 1 7 = nergy saving 8 = Alarm 9 device on/off Io Compressor relay (K1) SPST, 16 A res. @ 250 VAC 10 C to alarm II H alarm Iii Image: New Yee Yee Yee Yee Yee Yee Yee Yee Yee Y | | Ν. | PAR. | DEF. | DIGITAL INPUTS | MIN MAX. | | digital input (d | oor switch/multi | -purpose, dry contact) | | |
| Image: Second State Sta | | 56 | i0 | 1 | door switch/multi-purpose input | 0 = none | Dry contact | Contact type | | 5 VDC, 1.5 mA | | |
| State State State State State State 61 10 0 door closed consecutive time for energy saving -1120 min -1120 min -1 | | | | | function | 1 = compressor off | | Power supply | | None | | |
| 4 = reserved 5 = reserved 5 = reserved 5 = reserved 7 = energy saving 8 = iA alarm 9 = device on/off 10 = Cth alarm 11 = th alarm 1 = disabled 1 = th alarm 1 = disabled 1 = th alarm 1 = th alarm 1 = th alarm 1 = disabled | | | | | | 2 = reserved | | Protection | None | | | |
| Second State Second State Second State Second State Second State 62 113 100 door closed consecutive time for energy saving 1 | | | | | | 3 = reserved | Digital outputs | 1 electro-mech | anical relay (cor | npressor relay) | | |
| 6 = reserved 7 = nergy saving 8 = A alarm 3 digits custom display, with function icons 57 i1 0 door switch/multi-purpose input activation 0 = with contact closed 1 = mergy saving 58 i2 30 open door alarm delay -1 120 min -1 = disabled 59 i3 15 regulation inhibition maximum time with door open -1 120 min -1 = disabled 60 i7 0 multi-purpose input alarm delay -1 120 min -1 = disabled 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 0 = disabled 62 113 180 number of door openings for de frost 0 240 0 = disabled 63 i14 32 door open consecutive time for 0 240 0 240 0 63 i14 32 door open consecutive time for 0 240 0 240 0 | | | | | | 4 = reserved | Compressor relay (K1) | | SPST, 16 A res. @ 250 VAC | | | |
| 7 energy saving 8 i.a larm 9 device on/off 10= Cth alarm 11= th alarm 3 digits custom display, with function icons 57 i1 0 door switch/multi-purpose input activation 0 with contact closed 1 incorporated 58 i2 30 open door alarm delay -1 120 min -1 ewith contact open 59 i3 15 regulation inhibition maximum time with door open -1 i10 min -1 60 i7 0 multi-purpose input alarm delay -1 120 min -1 -1 120 min -1 -1 120 min -1 61 i10 0 door closed consecutive time for energy saving 0999 min after regulation temperature <sp 0 -SP 0 - 62 i13 180 number of door openings for de </sp | | | | | | 5 = reserved Type 1 or Type 2 Actions | | | Type 1 | | | |
| 8 = iA alarm 9 edvice on/off 10 10 10 20 3 digits custom display, with function icons 57 i1 0 door switch/multi-purpose input 0 = with contact closed 1 Incorporated 58 i2 30 open door alarm delay -1 120 min -1 = disabled 59 i3 15 regulation inhibition maximum -1 120 min -1 = disabled 60 i7 0 multi-purpose input alarm delay -1 120 min -1 = disabled 61 i10 0 door closed consecutive time for energy saving 0 240 0 240 0 240 62 i13 180 number of door openings for de- 0 240 min 0 240 min | | | | | | 6 = reserved | Additional features of Type 1 | or Type 2 ac- | С | | | |
| 57 i1 0 door switch/multi-purpose input activation 0 = with contact closed 1 = with contact closed 1 = with contact closed 1 = with contact closed 1 TTL MODBUS slave port for BMS 58 i2 30 open door alarm delay -1 120 min -1 = disabled 59 i3 15 regulation inhibition maximum time with door open time with door open -1 120 min -1 = until the closing 60 i7 0 multi-purpose input alarm delay time with door open -1 120 min -1 = until the closing 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 0 = disabled 0 62 i13 180 number of door openings for de frost 0 240 min 63 i14 32 door open consecutive time for frost 0 240 min | | | | | | 7 = energy saving | tions | | | | | |
| Arrin Ud22P Incorporated S7 i1 O door switch/multi-purpose input activation 0 = with contact closed 1 = with contact closed 1 TL MODBUS slave port for BMS 58 i2 30 open door alarm delay -1 120 min -1 = disabled -1 120 min -1 = until the closing 60 i7 O multi-purpose input alarm delay -1 120 min -1 = until the closing -1 120 min -1 = disabled 61 i10 O door closed consecutive time for energy saving O -1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset O | | | | | | | | | | Displays | | 3 digits custom display, with function icons |
| Image: State of the state | | | | | | , | Alarm buzzer | | Incorporated | | | |
| 57 i1 0 door switch/multi-purpose input activation 0 = with contact closed 1 = with contact open 58 i2 30 open door alarm delay -1 120 min -1 = disabled 59 i3 15 regulation inhibition maximum 1 = 120 min -1 = until the closing 60 i7 0 multi-purpose input alarm delay -1 120 min -1 = disabled 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 0 = disabled 62 i13 180 number of door openings for defront 0 240 63 i14 32 door open consecutive time for 0 240 min | | | | | | | | | Communication ports | | 1 TTL MODBUS slave port for BMS | |
| S8 i2 30 open door alarm delay -1 120 min -1 = disabled 59 i3 15 regulation inhibition maximum time with door open -1 120 min -1 = until the closing 60 i7 0 multi-purpose input alarm delay if i0 = 10 or 11, compressor on delay after alarm reset 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 62 i13 180 number of door openings for de- frost 0 240 63 i14 32 door open consecutive time for frost 0 240 min | ŀ | | | | | | | | • | | | |
| 58 i2 30 open door alarm delay -1 120 min 59 i3 15 regulation inhibition maximum -1 120 min 59 i3 15 regulation inhibition maximum -1 120 min 60 i7 0 multi-purpose input alarm delay -1 120 min -1 util the closing -1 120 min -1 120 min -1 0 multi-purpose input alarm delay -1 120 min -1 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 62 i13 180 number of door openings for de- frost 0 240 63 i14 32 door open consecutive time for 0 240 min | | 57 i1 | | | | | | | | | | |
| Image: space of the systemImage: space of the systemImage: space of the systemImage: space of the system59i315regulation inhibition maximum time with door open-1 120 min -1 = until the closing60i70multi-purpose input alarm delay reserve of the system-1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset61i100door closed consecutive time for energy saving0 999 min after regulation temperature < SP 0 = disabled62i13180number of door openings for de- frost0 240 0 = disabled63i1432door open consecutive time for frost0 240 min | Na | | | | | | | | | | | |
| 59i315regulation inhibition maximum time with door open-1 120 min -1 = until the closing60i70multi-purpose input alarm delay -1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset61i100door closed consecutive time for energy saving0 999 min after regulation temperature < SP 0 = disabled62i13180number of door openings for de- frost0 240 0 = disabled63i1432door open consecutive time for frost0 240 min | | 58 | i2 | 30 | open door alarm delay | | | | | | | |
| imageimageimage-1 = until the closing60i70multi-purpose input alarm delay -1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset-1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset61i100door closed consecutive time for energy saving0 999 min after regulation temperature < SP 0 = disabled62i13180number of door openings for de- frost0 240 0 = disabled63i1432door open consecutive time for frost0 240 min | | | | | | | | | | | | |
| 60 i7 0 multi-purpose input alarm delay -1 120 min -1 = disabled if i0 = 10 or 11, compressor on delay after alarm reset 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 62 i13 180 number of door openings for de-frost 0 240 63 i14 32 door open consecutive time for 0 240 min | | 59 | | | | | | | | | | |
| 61 i10 0 door closed consecutive time for energy saving 0 999 min after regulation temperature < SP 62 i13 180 number of door openings for de- frost 0 240 63 i14 32 door open consecutive time for 0 240 min | | | | | | | | | | | | |
| Image: series of the series | | 60 | i7 | 0 | multi-purpose input alarm delay | - | | | | | | |
| Image: series of the series | | | | | | | | | | | | |
| 61i100door closed consecutive time for energy saving0 999 min after regulation temperature < SP 0 = disabled62i13180number of door openings for de- frost0 240 0 = disabled63i1432door open consecutive time for0 240 min | | | | | | , , , | | | | | | |
| energy savingafter regulation temperature < SP 0 = disabled62i13180number of door openings for de- frost0 240 0 = disabled63i1432door open consecutive time for0 240 min | | | | | | | | | | | | |
| 62 i13 180 number of door openings for de- frost 0 240 63 i14 32 door open consecutive time for 0 240 min | | 61 | i10 | 0 | | | | | | | | |
| Image: Constraint of the constr | | | | | | | | | | | | |
| 62 i13 180 number of door openings for de- frost 0 240 63 i14 32 door open consecutive time for 0 240 min | | | | | | - | | | | | | |
| frost 0 = disabled 63 i14 32 door open consecutive time for 0 240 min | | | | | | | | | | | | |
| 63 i14 32 door open consecutive time for 0 240 min | | 62 | i13 | 180 | | | | | | | | |
| | | | | | | | | | | | | |
| defrost 0 = disabled | | 63 | i14 | 32 | | | | | | | | |
| | | | | | defrost | 0 = disabled | | | | | | |

N.B. The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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