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0/10VGNDRx/RxJ12GNDID2B7B8J11NO4NO5NO6NO7C3NO3C324 V (+10/-15%); 50/60 Hz48 V (36Vmin72 Vmax)Input voltage: max. power:4 VA /11 W14W4GNDID2Y3Y40/10V 0/10VJ13NO3C3NO4J11NO6G5NO5J121516Fig. 2.hkType AJ2-3 B1 universal analogue input 1 (NTC, 0 to 1 V, 0 to 5 V, 0 to J2-3 B2 universal analogue input 2 (NTC, 0 to 1 V, 0 to 5 V, 0 to TX+ port)TX+ portPage 1717ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014J8-3 GND GND connector for RS485 connection to Fieldbus portJ9-1 Y1 analogue output 1 PWM (for phase cutting speed controllers)J2 Y2 analogue output 2, 0 to 10 VJ9-3 GND analogue output referenceJ10-1 NO2 normally open contact, relay 2J10-2 C2 common for relay 2J11-1 C3 common for relays: 3, 4, 5, 6, 7J11-2 NO3 normally open contact, relay 4J11-4 NO5 normally open contact, relay 5J11-5 NO6 normally open contact, relay 6J11-6 NO7 normally open contact, relay 7J11-7 C3 common for relays: 3, 4, 5, 6, 7J12-7 GND reference for analogue input B7, B8 and digital input ID2J12-8 ID2 digital input 2J12-9 B7 universal analogue input 7 (NTC, DIJ12-12 B8 universal analogue input 8 (NTC, DIUTYPE BConnector Signal DescriptionJ1-1 G power supply, +24 Vdc or 24 to 48 VdcJ1-2 G0 power supply referenceJ2-1-2 SYNC power supply synchronicity input for phase controlJ2-3 B1 universal analogue input 1 (NTC, 0 to 1 V, 0 to 5 V, 0 to 20 mA, 4 to 20 mA)J2-3 B2 universal analogue input 2 (NTC, 0 to 1 V, 0 to 5 V, 0 to 10 V, 0 to 20 mA, 4 to 20 mA)J2-5 B3 universal analogue input 3 (NTC, 0 to 1 V, PT1000)J2-6 B4 universal analogue input 4 (NTC, 0 to 1 V, PT1000)J2-7 B5 universal analogue input 5 (NTC, 0 to 1 V, 0 to 5 V, 0 to 10 V, DIJ2-8 B6 universal analogue input 6 (NTC, 0 to 1 V, 0 to 5 V, 0 to 10 V, DIJ2-9 GND analogue input referenceJ2-10 +5VREF power supply for 0 to 5 V ratiometric probesJ2-11 +24VDC power supply for 24 Vdc active probesJ2-12 ID1 digital input IJ2-13 GND reference for digital input IDJ1J13-1 C1 common for relays: J1J13-2 NC1 normally closed contact, relay J1J13-3 NO1 normally open contact, relay J1J4 6-pin telephone connector for connecting the standard user terminalJ5-1 RX-/TX- RX-/TX- connector for RS485 connection to the pLAN networkJ5-2 RX+/TX+ RX+/TX+ connector for RS485 connection to the pLAN networkJ5-3 GND reference for RS485 connection to the pLAN networkJ6 tLAN terminal connectorJ7-1 TLAN LAN network connectorJ7-2 GND reference for connecting the TLAN networkJ8-1 RX-/TX- RX-/TX- connector for RS485 connection to Fieldbus portJ8-2 RX+/TX+ RX+/TX+ connector for RS485 connection to Fieldbus portJ8-3 GND GND connector for RS485 connection to Fieldbus portJ9-1 Y1 analogue output 1 PWM (for phase cutting speed controllers)J9-2 Y2 analogue output 2, 0 to 10 VJ9-3 GND analogue output referenceJ10-1 NO2 normally open contact, relay 2J10-2 C2 common for relay 2J11-1 NO4 normally open contact, relay 4J11-2 C3 common for relay 3, 4J11-3 NO3 normally open contact, relay 3J12-1 NO6 normally open contact, relay 6J12-2 C3 common for relay 5, 6J12-3 NO5 normally open contact, relay 5J13-1 GND reference for analogue output Y3, Y4 and digital input ID2J13-2 ID2 digital input 2J13-3 Y3 analogue output 3, 0 to 10 VJ13-4 Y4 analogue output 4, 0 to 10 VTab. 2.n5dimensionsal versions are available on 6 DIN modules 105x115x60 mmassemblyDIN railisolated power supply DC power supply: 48 Vdc (36 Vmin to 72 Vmax) AC power supply: 24 Vac +10/-15 %, 50/60 HzMaximum power: P=11W, P=14VA, Imax=700mACPU HRSX/1651 32-bit, 50 MHzProgram memory (FLASH) 2+2 MByte Data memory (SRAM) 512 kBytes at 16 bit Parameter data memory (EEPROM)13 kBytes + 32 kB NAND Flash memory 32 MByteWorking cycle duration 0.2 s typical (medium complexity applications)Clock Available as standard and integrated into main boardTab. 2.o The battery used inside the pCO compact is a button sized lithium battery, code CR2430, 3 Vdc, dimensions 24mm x 3mm.SERIAL port speci cationsItem Type Reference Main featuresSerial ZEROPLAN J4, J5 Integrated on main board Not optically-isolated HW driver: RS485 Connectors: Telephone jack + 3-pin plug-in p. 3.81CABLE LENGTHConn. Type of shielded cableLmax (m)PowerJ4 Telephone 50 taken from pCO compact (150 mA)J4 AWG24 200 taken from pCO compact (150 mA)J4 AWG20/22 500 separate via TCONN6J000J5 AWG20/22 500 -Serial ONEBMS 1 Serial Card 1 Not integrated on main board HW driver: not present Can be used with all pCO family optional BMS cards Maximum cable length: see serial option documentsPage 1818ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014Serial TWOOpto-isolated FIELD BusJ8 Integrated on main board Optically-isolated HW driver: RS485 opto-isolated 3-pin plug-in connector p. 3.81 Maximum AWG20/22 shielded cable length: 500 mLAN J6J7As an alternative to the Field Bus serial the following can be used: LAN serial available on a 2-pin connector p. 3.81 (J7) or connection to a PLD terminal available via special 4-pin connector (J6) J7: maximum shielded cable length (2 wires + shield) AWG20/22: 30 m J6: maximum four-wire cable length (see accessories table): 2 m for domestic environments, 10 m for residential environmentsTab. 2.p Note-connected to PE contacts connected as SLAVES cannot be connected using serial 2. Nonetheless, only one SLAVE can be connected using serial 2.Type Asynchronous half duplex RS485Transmission speed62.5 Kbps or 115.2 Kbps selectable via softwareMaximum number of units connectable32 Unit maximum allowedTerminal connector6-pin telephone (J4)Connector pLAN network, graphic terminal, Aria terminal3-pin plug-in connector, 3.81 mm pitch (J5)Maximum network length30 mTab. 2.q Note-terminals however without using the display backlighting, supplies.Type Asynchronous half duplex 0/5 Vdc, non-di erential Transmission speed 9.6 Kbps or 19.2 Kbps selectable via softwareMaximum number of units connectableMaximum 5 units allowedTLAN network connector 2-pin plug-in connector, 3.81 mm pitch (J7)Tab. 2.r Note:serial available on the 3-pin connector p. 5.08 (J8) or the PLD terminal connection available on the special 4-pin connector (J6).Max. cable length 10 mAnalogue conversion A/D converter, 10-bit CPU built-in Models TYPE A TYPE BCAREL NTC -50T90 C; R/T 10 k at 25C or HT NTCOT150 CB1, B2, B3, B4, B5, B6, B7, B8B1, B2, B3, B4, B5, B6to 1 Vdc voltage B1, B2, B3, B4, B5, B6B1, B2, B5, B6B1, B2, B5, B6B1, B2B3, B4to 5 Vdc ratiometric0 to 10 Vdc voltage0 to 20 mA or 4 to 20 mA currentPT1000 -100T200 C; R/T 1000 at 0 CVoltage-free digital input (5 mA) B5, B6, B7, B8 B5, B6Total 8 6Tab. 2.s Warning: for the power supply to any active probes, the +21 V available on the +21VDC terminal can be used, maximum current available Imax=60 mA, protected against short-circuits. For the power supply to the 0 to 5 Vdc ratiometric probes, use the +5 VREF, maximum current available Imax= 60 mA, protected against short-circuits.Time constant 0.5 sPrecision 0.3% of full scaleClassi cation of measuring circuits Category 1 (IEC EN 61010-1)Tab. 2.t Warning: separate as much as possible the probe signal and digital input cables from the inductive load and power cables, to avoid possible electromagnetic disturbance.Max. cable length 10 mType Not opto-isolated, voltage-free contactPower supply InternalModels TYPE A TYPE BMultifunction analogue inputs (see note) B5, B6, B7, B8 B5, B6Fast digital input ID1 ID1Normal digital input ID2 ID2Total 6 4Tab. 2.u Note,Multifunction analogue inputs: these analogue inputs can be programmed via software as digital inputs instead of analogue inputs. All digital inputs refer to GND.Fast digital input speci cations (ID1) The fast digital input (ID1) can be configured via software in two di erent operating modes, with the following characteristics:When configured as a fast digital input, ID1 can measure a signal with a maximum frequency of 2 KHz, resolution +/- 1 Hz. This is made possible by the BIOS, which provides the SW application with two variables that the count the number of times the input signal crosses zero and the corresponding frequency in Hz.Normal and fast digital input speci cationsThe maximum current available to the digital input is 5 mA (consequently the rating of the external contact must be at least 5 mA).Max. cable length 10 mPage 1919ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014Type Not opto-isolatedPower supply InternalModels TYPE A TYPE B0 to 10 Vdc analogue output Y2 Y2, Y3, Y4PWM analogue output with 5 Vdc pulse of programmable durationY1 Y1Total 2 4Tab. 2.v Resolution 8 bitPrecision 2% of full scale on Y2Settling time 2sMaximum load 1k (10 mA) for Y2 0/10V, 470 (10 mA) for Y1 PWMTab. 2.w Technical specifications of the outputsInsulation groupConn. ModelsType AType A (2 SSR)Type BType B (2 SSR)Type B (4 SSR)SPDT relay:UL873: 2.5 A resistive, 2 A FLA, 12 A LRA, 250 Vac, C300 pilot duty (30,000 cycles) EN60730-1: 2 A resistive, 2 A inductive, cos(phi)=0.6, 2 (2) A (100,000 cycles)J1 J3 1-1-12 J10 1-1-1SPST relay:UL873: 1 A resistive, 1 A FLA, 6 A LRA, 250 Vac, D300 pilot duty (30,000 cycles) EN60730-1: 1 A resistive, 1 A inductive, cos(phi)=0.6, 1 (1) A (100,000 cycles)J3 J11 5522-4 J12 - - 2 - 2 -Power MOSFET Photovoltaic relayOperating voltage: 24 Vac or 28 to 36 VdcMaximum power: 10 W1 J3 -1-1-2 J10 -1-1-3 J11 ---24 J12 ---2Total outputs 77666Tab. 2.x pCO5 5560105110J7J10J9J8J5J1GG0+5Vref+VDCID1GNDJ3C1NC1NO1J2SYNCB1B2B3B4B5B6GNDSerial card 2Serial card 1J4J6TLANGNDC2NO2GNDY2Y1GNXISOLATEDTXRXPWM 0/10VGNDRx/Rx24 V (+10/-15%); 50/60 Hz48 V (36Vmin72 Vmax)Input voltage: max. power:8 VA / 6 WPage 2020ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014Various types of user terminals are available, di ering in terms of:The pGB graphic display is an electronic device, compatible with the previous PCOI/PCOT terminals, used for the complete management of the graphics, by displaying icons (needed at an application software development level) and international fonts, in two dimensions: 5x7 and 11x15 pixels. The application software only resides on the pCO board; the terminal does not need any additional software during operation. In addition, the terminal allows a wide range of operating temperatures (-20T60C) and guarantees a high index of protection (IP65).Fig. 3.aWhite Backlight White Backlight with buzzerBuilt-in or panel versionPGDE000F00 PGDE000F00Z0Wall-mounted version PGDE000W00 PGDE000W00Z0Tab. 3.aDisplayType: FSTN graphic Backlighting: white LEDs (controlled by application program) depending on the code.Graphic resolution: 132x64 pixelText modes: 8 rows x 22 columns (5x7 and 11x15 pixel fonts)4 rows x 11 columns (11x15 pixel fonts)or mixed modesCharacter height: 3.5 mm (5x7 pixel fonts)7.5 mm (11x15 pixel fonts)Size of the active area: 66x32 mmSize of the display area: 72x36 mmKeypad LED / buzzer2 programmable from application program, red and orange (+ buttons)4 green controlled by LCD backlighting LCD (& buttons) Optional buzzer (*20 models)Power supplyVoltage: power supply from pCO via telephone connector or from external 18/30 Vdc source protected by external 250 mA fuseMaximum power input: 0.8 WTab. 3.bPGD1000I00 pCO graphic display (panel installation)Fig. 3.bDisplayType: FSTN graphic Backlighting: green LEDs (controlled by application program) depending on the code.Graphic resolution: 132x64 pixelText modes: 8 rows x 22 columns (5x7 and 11x15 pixel fonts)4 rows x 11 columns (11x15 pixel fonts)or mixed modesCharacter height: 3.5 mm (5x7 pixel fonts)7.5 mm (11x15 pixel fonts)Size of the active area: 66x32 mmSize of the display area: 72x36 mmKeypad15 buttons, the ESC button is replaced by the MENU buttonPower supplyVoltage: power supply from pCO via telephone connector or from external 18/30 Vdc source protected by external 250 mA fuseMaximum power input: 1.8 WTab. 3.cAdjusting contrast on the pGD1:1. pressing the Alarm and Prq buttons together2. holding the two buttons, use Up or Down to adjust the contrast as desired (increase or decrease).Fig. 3.cFig. 3.dPage 2121ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014pCO5 and pCO5 compact come in the built-in terminal version with the display and keypad directly incorporated into the plastic case.codes PCO5*****E** PCO5*****P** PCO5*****G**LCD 8x22, backlit (pGD1)number of buttons 6number of LEDs 4+2 two-colourTab. 3.dThese versions with integrated LCD and keypad also support connection to the pCO, PCDE and PGD1 series terminals (the two displays, built-in and standard, work at the same time, displaying the same information).The display contrast can also be adjusted on this version of terminal.To do this desired (increase or decrease).The typical connection between the pGD terminal and the pCO is made using a 6-wire telephone cable supplied by CAREL (code S90CONN00*, see the table). To make the connection, simply plug the cable into the 6-pin connector on the pCO board (J10 for pCO3 and pCO1, J5 for pCOXS, J19 pCOC), until it clicks into place. To remove the connector, lightly press the plastic catch and remove the cable. The telephone connector provides both the data link and the power supply to the terminal, and is the simplest connection method; in more complex configurations, where multiple terminals need to be connected to the pCO or to cover lengths over 50 m, use shielded, twisted pair cable (see diagrams in chap. 5). Warning shielded cables must be used even when the pCO is tied on appliances for household or similar uses, and therefore subject to the requirements of IEC EN 55014-1 of 04/98) (see paragraph 5.7). When making a pLAN network of pCO controllers and terminals, remember that one pCO can only power one pGD0/1 or pCOT/1 terminal. If needing to manage more than one terminal or for the pGD2/3, an independent power supply is required (see diagrams in chap. 5). The direct current available at Vterm (J24 for pCO3, J9 for pCO1) can power an Aria or PLD terminal with a maximum current of 2 W. Absence of the terminal does not compromise operation of the pCO.RS485: PCOS004850Fig. 3.e The PCOS004850 card is an option used to interface pCO electronic controllers to an RS485 network with maximum baud rate 19200 baud (settable via software). It guarantees optical isolation of the controller from the RS485 serial network. For the technical speci cations, meanings of the connections (pins) and instructions on inserting the card, see the instructions shown on the instruction sheet included in the packaging with the card (code +950003237).RS232 serial card for modem management. PCO100MDM0Fig. 3.f The PCO100MDM0 card is an option used to interface pCO electronic controllers to a standard HAYES modem, managing the following hardware signals:(DTR)The maximum baud rate is 19200 baud. For the technical speci cations, meanings of the connections (pins) and instructions on inserting the card, see the instructions shown on the instruction sheet included in the packaging with the card (code +050003240).Ethernet serial card: PCO100NW80Fig. 3.g Used to interface pCO controllers with BACnet Ethernet and IP, SNMP V1, 2, FTP and HTTP, Modbus TCP/IP protocols. BACnet MSTP RS485 interface card (PCO1000B0A)Fig. 3.h Used to interface pCO controllers with the BACnet MSTP protocol, increasingly used for HVAC applications.CANbus serial card: PCOS00HBB0Fig. 3.i These devices are used to connect pCO controllers to CANbus networks and, more speci cally, to e-drofan fan coil controllers, exploiting the power of the edronic system to allow simpler management of the installation, optimising comfort, synergies between controllers and running costs. For the technical speci cations, meanings of the connections (pins) and instructions on inserting the card, see the instructions shown on the instruction sheet included in the packaging with the card (code Page 22Page 23Page 2424ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014pCO / UP /DOWNFlashing: the key is connecting to the pCO, during this phase, which may last a few seconds, the start button is disabled.START Flashing: the key has detected the pCO and is checking the access rightsSTART+On steady: pressing the button starts writing the software to the pCOSTART+On steady: pressing the button starts reading the software from the pCOSTART+On steady: pressing the button starts reading the logs from the pCOMODE On steady: for key type C, pressed for 1 second switches from read to write+ +symbols ashing Communication error: no response from the pCO Firmware version of the key incompatible+MODEsymbols on steady Password error+MODEsymbols ashing Type of key incompatible+symbols on steady The key is missing one or more required les Empty memory: no kit for the type of pCO connected+ +STARTsymbols on steady + ashing STARTIncompatibility between the software on the key and the pCO HW (*)+ +MODEsymbols on steady + ashing MODEIncompatibility between pCO application and HW (application size)+ +symbols on steady No logged data present on the pCOsymbol on steady No programmed+START+ +BUZZERsymbols ashing and buzzer sounding intermittentlyThe write operation has failed+START+ +BUZZERsymbols ashing and buzzer sounding intermittentlyThe read operation has failed+START+ +BUZZERsymbols ashing and buzzer sounding intermittentlyThe read logs operation has failed+ + symbols on steady + ashingIncompatibility between log configuration and pCO HW (no dedicated ash memory)+symbols on steady Insu cent space to read logged datasymbol ashing Generic errorPage 2525ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014Type Function Mode button Update software from key to pCO (bios, application, parameters.)Disabled* Copy software from pCO to pCO (bios, application, parameters.)Switches the key from write mode to read modeD Read logged data DisabledE Read logged data and software from pCO (bios, application, parameters.)DisabledF Read logged data from Chiller3 DisabledG Copy from pCO to pCO and read logged dataSwitches the key from write mode to read mode*: Default modeTab. 3.hpCOePCO3CON * * 00= screw1= smallM= mediumL= largeZ= extra large N.O.Tab. 3.a PCOXCON * * 00= screw1= springA= type AB= type BTab. 3.i Page 2626ENGpCO5 +0300009EN rel. 1.2 - 24.04.2014 Environmental conditionsAvoid assembling the pCO and the terminal in rooms with the following characteristics.data of the product: ammonia fumes, saline mist, smoke) so as to avoid corrosion and/or oxidation;installing the units near transmitting antennae);present;and reduction of insulation).Positioning inside the panelThe position of the controller in the electrical cabinet must be chosen so as to guarantee correct physical separation from the power components (solenoids, contactors, actuators, inverters, ...) and the connected cables. Proximity to such devices/cables may create random malfunctions that are not immediately evident.The structure of the panel must allow the correct ow of cooling air:When laying the wiring, physically separate the power part from the control part. The proximity of these two sets of wires will, in most cases, cause problems of induced disturbance or, over time, malfunctions or damage to the components. The ideal solution is to house these two circuits in two separate cabinets. Sometimes this is not possible, and therefore the power part and the control part must be installed in two separate areas inside the same panel. For the control signals, it is recommended to use shielded cables with twisted wires.If the control cables have to cross over the power cables, the intersections must be as near as possible to 90 degrees, always avoiding running the control cables parallel to the power cables. Carel highlights the following warnings:each screw and insert the cable ends, then tighten the screws. When the operation is completed, slightly tug the cables to check they are su ciently tight;line cables from the cables carrying inductive loads and power cables to avoid possible electromagnetic disturbance. Never insert power cables (including the electrical cables) and probe signal cables in the same conduits. Do not install the sensor cables in the immediate vicinity of power devices (contactors, circuit breakers or similar);spiral paths that enclose power devices;on the boards to avoid electrostatic discharges (extremely damaging) from the operator to the components;wire corresponds to the wire that runs to the controller and enters terminal G0; this applies to all the devices connected to the pCO;with excessive force, to avoid damaging the pCO;10/55 Hz), secure the cables connected to the pCO around 3 cm from the connectors using clamps;61000-6-2) the connections must be less than 30 m long;28 to 36 Vdc digital inputs, analogue outputs, serial bus connections, power supplies) must have reinforced or double insulation from the mains network;and the terminal must be shielded:individual terminal. The only limitation concerns the maximum current crossing each terminal: this must not exceed 8 A;AWG);terminal (torque tightening) is 0.6 Nm; Warningslegislation in force in the country where the device is used;panel, so that the only accessible part is the display and the keypad;rather contact CAREL.The pCO is installed on a DIN rail. To fasten the unit to the DIN rail, press it lightly against the rail. The rear tabs will click into place, locking the unit in place. Removing the unit is just as simple, using a screwdriver through the release slot to lever and lift the tabs. These are kept in the locked position by springs.pCO5 power supply (controller with terminal connected)28 to 36 Vdc +10/-20% and 24 Vac +10/-15% 50 to 60 Hz;Maximum current P= 20 W (power supply Vdc), P= 45 VA (Vacc)PCO5 compact power supply: 48 Vdc (36 Vmin to 72 Vmax) and 24 Vac +10/-15 %, 50/60 HzMaximum current P=11W, P=14VA, Imax=700mAAtab. 4.a the system;to supply just one pCO5 controller; the pCO5 compact on the other requires the same type of transformer yet with a 25 VA rating.controllers and terminals) should be separated from the power supply to the other electrical devices (contactors and other electromechanical components) inside the electrical panel;wire is connected to terminal G0. This applies to all the devices connected to the pCO; that the G and G0 references are observed (G0 must be maintained for all boards);

Carel pco password. Carel easy controller parameters. Carel pco5 password. Password for carel controller. Carel pco5 handleiding. Carel pco5 programming. Carel easy controller password. Carel controller default password. Carel pco5+ manual.

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