

The PCOS004850 is an optional electronic card of pCO series controls (pCO[®] excluded) which allows you to interface directly the pCO to a supervisory network RS485. The card ensures the controller optoinsulation to the RS485 serial network. The max.baud rate you can get is of 19200 baud (it can be set by software).

Mounting

To install the card in the pCO unit respect the following instructions (Fig.1...4):

1. remove the "serial card" placement cover with a screwdriver (Fig.1);
2. removing the pre-punctured plastic you get the hole which corresponds to the tree-pole terminal out (Fig.2);
3. insert the optional card into the corresponding connector, taking care that the card is firmly placed on both plastic supports on the pCO case (Fig.3);
4. close the cover using the screwdriver making the outside terminal fits with the punched hole made on the cover (Fig.4).

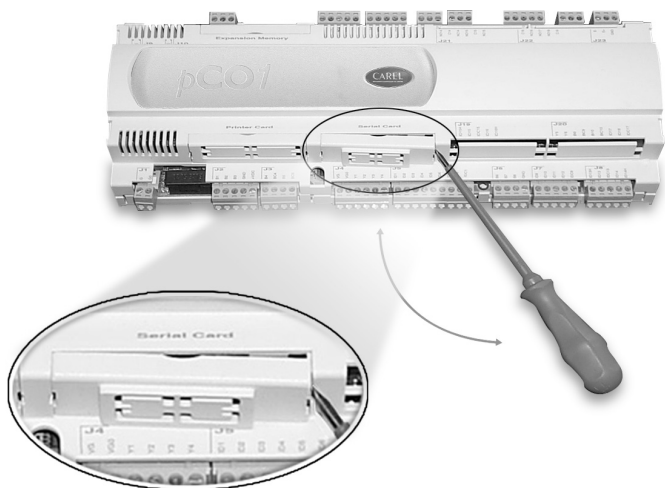


Fig. 1

The connection with the RS485 network is carried out by means of the plug-in terminal connector on the card. Pin-wiring of the connector is stamped on the card (see table 1). If the card is placed in the last position of the supervision serial line, pins 2 and 3, you must connect a 120 Ω - 1/4 W end line resistor, as shown in Fig.6.

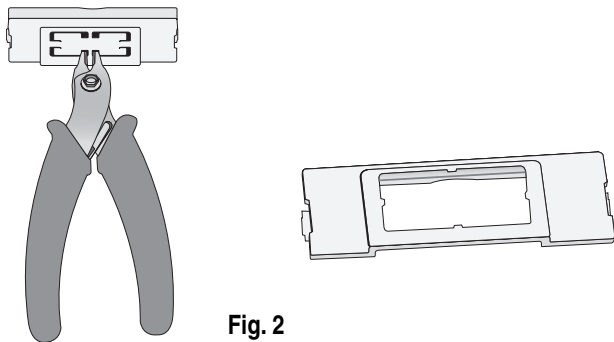


Fig. 2



Fig. 3

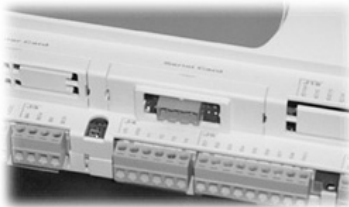


Fig. 4

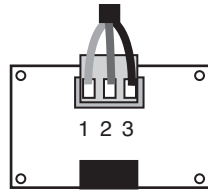


Fig. 5

pin	significato meaning
1	GND
2	RX+/TX+
3	RX-/TX-

Tab. 1

Technical specifications

Cable size (mm ²):	use an AWG20/22 two-wire twisted shielded cable with size ranging from min. 0.2 to max 2.5.
Operating conditions:	-10T60 °C; 90%UR.
Storage conditions:	-20T70 °C; 90%UR.
Environmental pollution:	normal
Dimensions (mm):	60x29x20, (60x29: board, 20: whole width of components).

Warning. When handling the card, please follow the advice below

Electrical damage may occur to the electronic components as a result of electrostatic discharges from the operator. Suitable precautions must be therefore be taken when handling these components:

- before using any electronic component or card, ground yourself (not touching the card does not prevent a spike, as static electricity can produce a 10000V spike discharge which can form an arc of about 1cm);
- all components must be kept inside their original package as long as possible. If necessary, take the board from its package and place it into an antistatic package without touching the back of the board with your hands;
- absolutely avoid non-antistatic plastic bags, polystyrene or spongee;
- do not pass the card directly to other operators (to prevent from electrostatic induction and discharges).

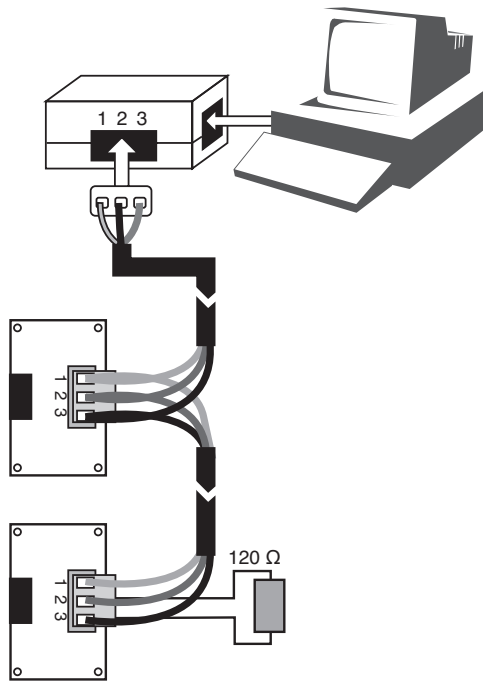


Fig. 6

CAREL

CAREL S.p.A.
Via dell'Industria, 11 - 35020 Brugine - Padova (Italy)
Tel. (+39) 0499716611 - Fax (+39) 0499716600
<http://www.carel.com> - e-mail: carel@carel.com

Carel reserves the right to modify the features of its products without prior notice.