



CAREL

pCO³

(pCO² Revision)



pCO₃

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pCO₃ will be pin-to-pin compatible with pCO₂,

With the following improvements ...



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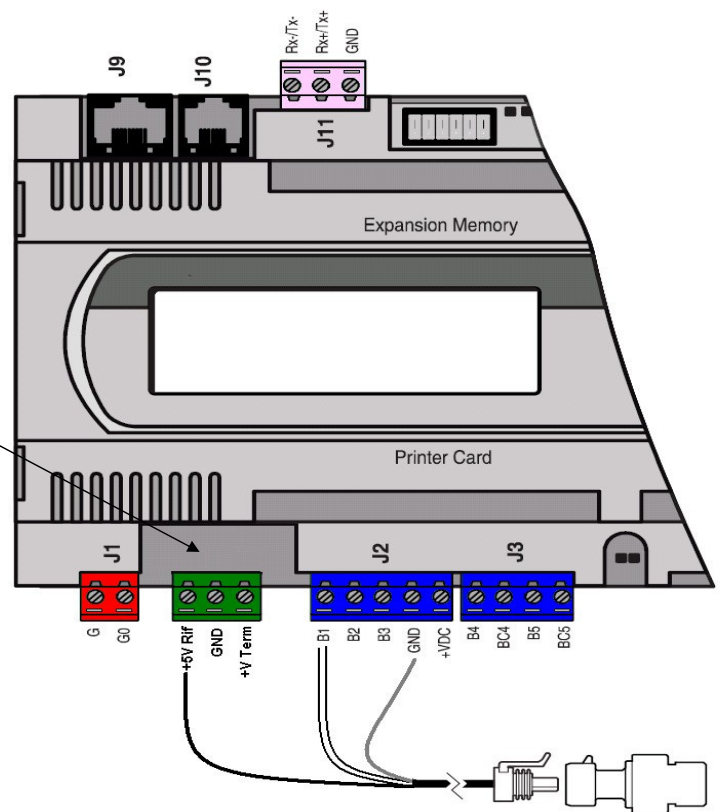
• 1st feature :

• **Ratiometric pressure sensors:**

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• **Up to 3 sensors for the small size**

• **Up to 6 sensors for the medium, large and extra large sizes**





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- 2nd feature :
- **Graphic built-in LCD (pGD0 and pGD1)**



- Supports icon-based languages (i.e. Chinese)**
- Allows for fully graphical features**



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3rd feature :

- new 'smart' programming key compatible with all pCO controllers (pCOxs, pCO1, pCO2,...)
- Connects to pCO's pLAN port
- Configurable Upload-Download of Bios/Application software or Historical data





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•4th feature :

•2 additional serial ports: *Field Bus* and *Service Port*

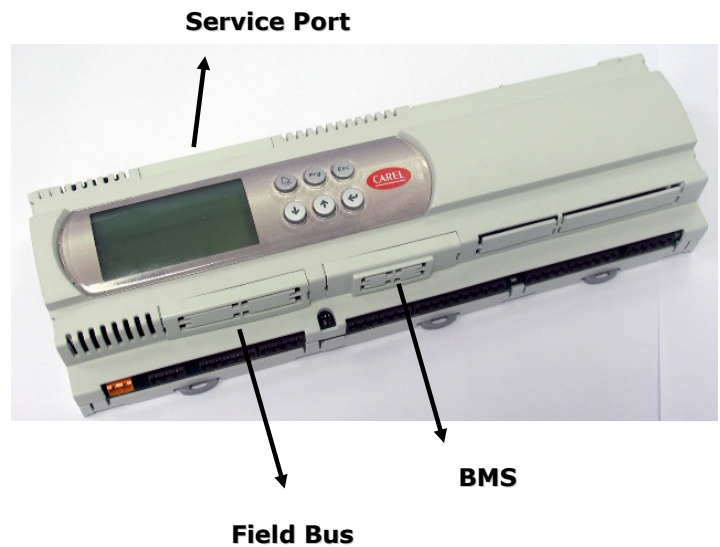
•Field Bus:

- **MODbus Master** (i.e. VFDs, Turbocor)
- Belimo serial protocol (MP-Bus)
- tLAN (pCO I/O expansion)
- CAN bus (hydronic controls)
- RS232 (Modem)

•Service Port:

•RS485 / RS232 plug-in boards

- Commissioning
- Testing and monitoring
- Upload/Download application and historical data





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- 5th feature: Processing speed

- pCO₃'s program cycle will be approx. 3x faster than pCO₂

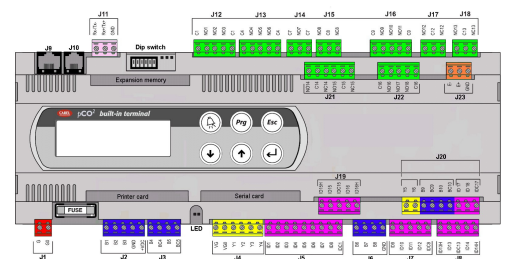




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- 6th feature:
- new I/O size: pCO3XL
- The number of I/Os will be:
- **29 DOs (13 of them 8A, 16 of them 5A)**
- **14 DIs**
- **8 AIs**
- **4 AOs**





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- 7th feature:
 - Increased memory size
 - pCO3 will features a 2+2 MB flash memory as standard.**
 - Possibility to expand it with a NAND-Flash of 16MB: for data-logging, BMP file storage (pGD2/3), etc (in this case the 4MB of standard flash can all be used for the program.**
 - Large volatile memory support: 512 k of RAM memory.**
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