- **wide range of parametric and programmable controllers**

- **custom user interfaces**

- **simple programming language that can be managed by the manufacturer**

- **internet, intranet connections, SMS transmission via GSM**

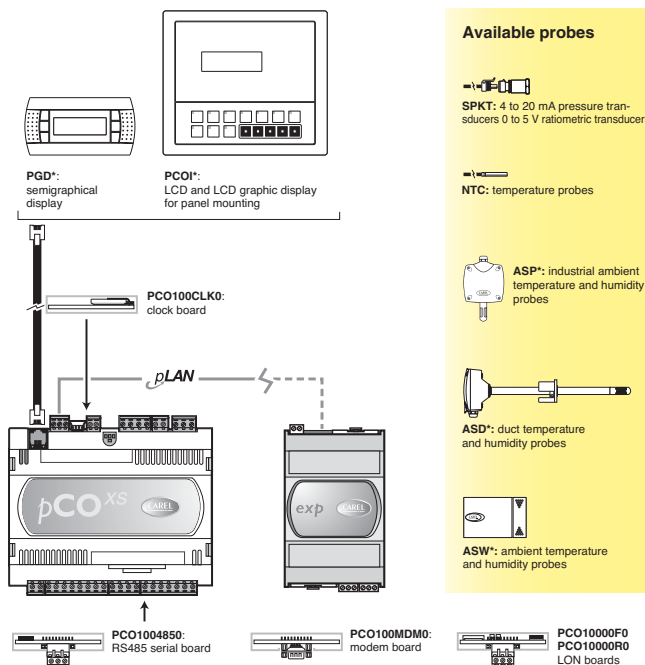- **integration with the leading BMS communication protocols**

CAREL and CAREL Applico, a global solution

The wide range of standard products and programmable controllers can be further customised to respond to the needs of the customer in terms of applications and mechanical characteristics.
For this reason, CAREL deals with its customers via CAREL Applico, which assists the customer in the customi-sation of the complete electrical panel.

CAREL Applico

Solutions for medium/large applications:

PGD*: semigraphical display

PCOI*: LCD and LCD graphic display for panel mounting

PCO100CLK0: clock board

*p***LAN**

*p***CO** XS

exp

PCO1004850: RS485 serial board

PCO100MDM0: modem board

PCO10000F0 PCO10000R0 LON boards

Available probes

SPKT: 4 to 20 mA pressure transducers 0 to 5 V ratiometric transducers

NTC: temperature probes

ASP*: industrial ambient temperature and humidity probes

ASD*: duct temperature and humidity probes

ASW*: ambient temperature and humidity probes

Solutions for small/medium applications:

for more information: **aircompressor@carel.com**

CAREL

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Electronic control for compressed air generators and driers

CAREL

Technology & Evolution

Control solutions for compressed air generators and driers

CAREL has been dealing with electronic controllers for many years, offering various different solutions in terms of performance and price.

Control solutions are available with **Parametric** or **Programmable electronic controllers**.

- The **Parametric electronic controllers** are evolved, innovative, reliable and used in applications where the operation of the controller can be adapted to a wide variety of needs.
  They are therefore an excellent balance between performance, price and flexibility of use, for applications that are not excessively complicated.

- The **Programmable electronic controllers** are the result of extended design experience.
  The pCO sistema family of electronic controllers features a range of different I/O characteristics.
  This range can be easily interfaced to the most commonly-used Building Management Systems.
  Moreover, using the software development tools, this system can be easily adapted and modified to suit different applications.
  CAREL has a specific software development department, and consequently can assist the customer for all service needs. In addition, CAREL offers training courses for its customers so as to teach them how to develop and maintain their applications independently.

Programmability

CAREL uses its own software development program called EasyTools. This very simple package allows programs to be created without necessarily knowing the fundamentals of programming, as it uses a graphic interface made up of logical blocks, each associated to specific functions. Users can define their own library and use the tried-and-tested standard macroblocks supplied. The autonomy of the development process guarantees the privacy of the software created, allowing the users to implement innovative and specific applications. The parameters can be protected by different levels of password (manufacturer and/or user). Certain readings can also be selected and saved in the data log. The data can then be processed by downloading to a PC.

EasyTools system

User interfaces

The series of pCO sistema controllers features a wide and consolidated range of customisable user interfaces. The terminals are available for panel or wall-mounting, with alphanumeric, semi-graphic and graphic LCDs that can display the messages in the main international alphabets.

Accessories

A series of accessories is available for interfacing directly via the most common communication standards. In addition, the clock card option can be used to manage the time, date and year, in buffer RAM.

Communication

Compatibility with supervisory systems is an increasingly important factor. The pCO sistema series controllers can interface via the more commonly-used communication standards, either directly or using a gateway (Modbus®, BACnet™, Johnson METASYS®, DLL for Windows®, TCP/IP, SNMP, LonWorks®, Trend …). The controllers can also interface with intranet/internet networks, using a special gateway that converts the CAREL protocol to TCP/IP Ethernet™ 10 Mb/s.
In addition, to ensure greater safety and simpler maintenance of the systems, the pCO sistema controllers can receive and send SMS (text) messages via a GSM modem.