



The new family of connected programmable controller



The c.pCO controller family represents the evolution of pCO5+ towards unprecedented networking capabilities.

Thanks to a Multitasking Operating System and the adoption of standard protocols, local and remote connectivity are the key innovation of the new c.pCO system.



Integrated Ethernet Interfaces

Two built-in 10/100 MB/s switched ports
Build networks without external switches
Wide range of integrated services

- Web Server with dynamic content
- FTP Server for upgrades and file upload
- Modbus/TCP Master and Slave
- BACNet/IP B-BC profile
- On-target debugging
- tERA cloud connections

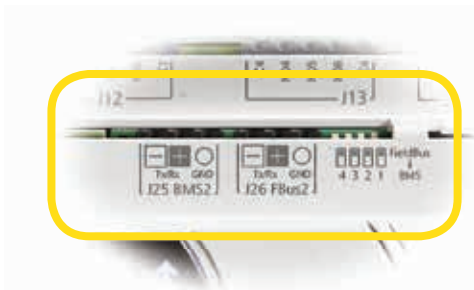
Integrated USB interface

Two built-in USB 2.0 standard ports
USB Host for storage devices
USB Devices for PC connection

- Upload application and OS upgrade packages
- Upload Web pages and generic user documents
- Download data logger CSV files
- Download user documents
- Application Cloning with encryption and digital signature
- On-target debugging



- 5 different sizes to better fit all applications
- ranging from 16 to 55 I/O points
- new controller size: c.pCO mini
- great I/O flexibility with Carel ASIC solution
- integrated BMS, Fieldbus, USB interfaces
- builtin Ethernet ports with Web server, FTP and tERA connection
- open protocols: Modbus®, BACnet™, HTTP, FTP
- integrated energy saving with Valve Driver and Ultracap



BMS & Field Bus connectivity

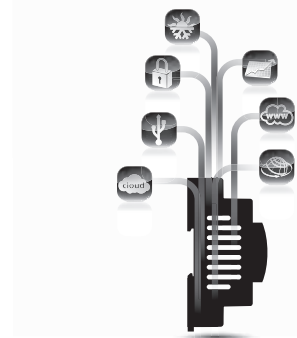
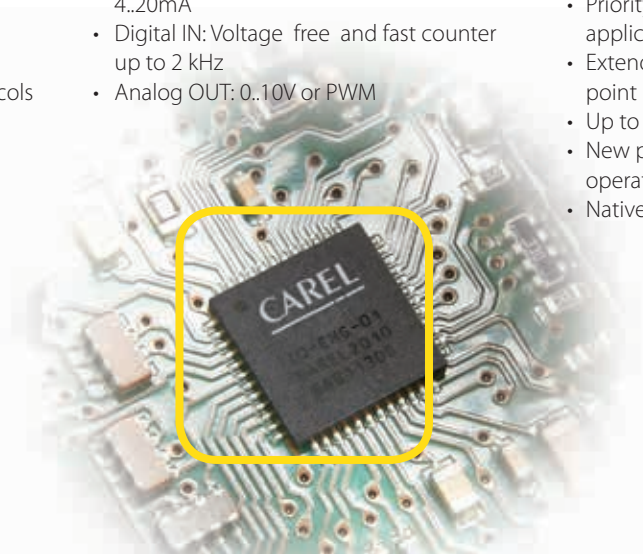
Two built-in RS485 interfaces
Expandable with two additional optional cards.
Multitasking independent protocol engines

- RS485 high speed interfaces up to 115200 bps
- Modbus® RTU Master and Slave protocols
- CAREL optimised Master and Slave protocols
- BACnet™ MSTP B-BC profile
- Custom protocol (Function blocks for Direct RS485 access)

Flexible I/O

Up to 10 Universal I/O channels
CAREL ASIC proprietary silicon technology

- Analog IN: NTC, PTC, PT100, PT500, PT1000, 0..1V, 0..5V, 0..10V, 0..20mA, 4..20mA
- Digital IN: Voltage free and fast counter up to 2 kHz
- Analog OUT: 0..10V or PWM



New Operating system

New Multitasking Operating System
New Virtual Machine for application logic
Optimal usage of onboard system resources.

- Priority management to guarantee application loop speed
- Extended datatypes: 32bit and floating point numbers
- Up to 5x speed increase on pCO5+
- New protocol engines for independent operation
- Native TCP/IP multitasking protocol stack