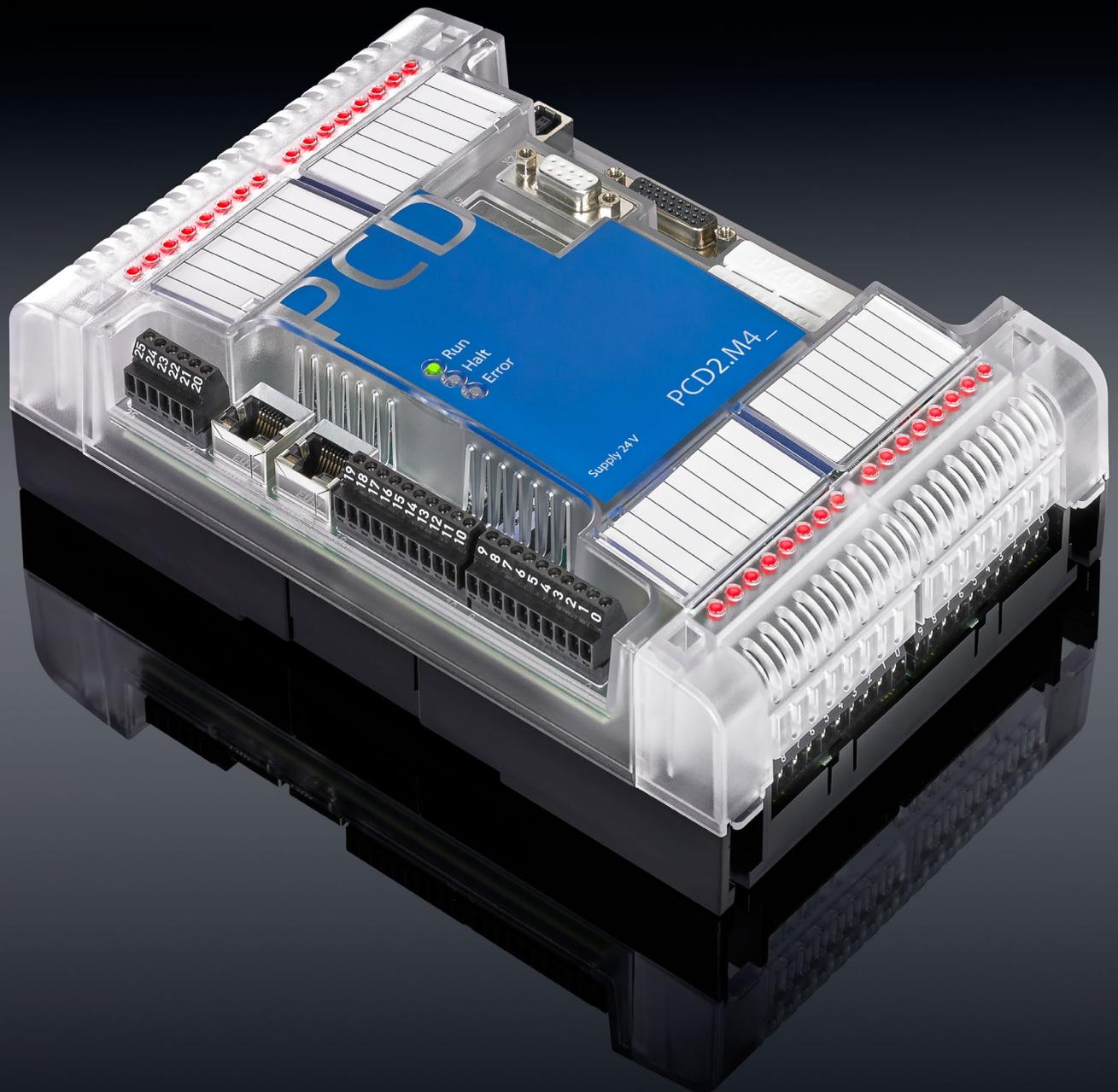


Universal PCD2 Controller

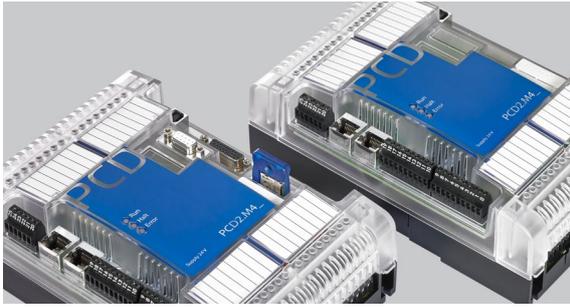
Powerful, flat and modular





Flexible automation solution for buildings and infrastructure

The freely programmable PCD2.M4x60 controller is based on a flat, space-saving housing design that has been used successfully for many years in OEM and project business. It has four freely assignable slots for input/output modules and can be extended for up to 1024 data points. Sufficient processor power and a 2 MB user program memory make it possible to carry out demanding communication tasks with up to 14 interfaces. Operating data is saved by non-volatile FRAM technology to ensure maintenance-free (no battery) operation.



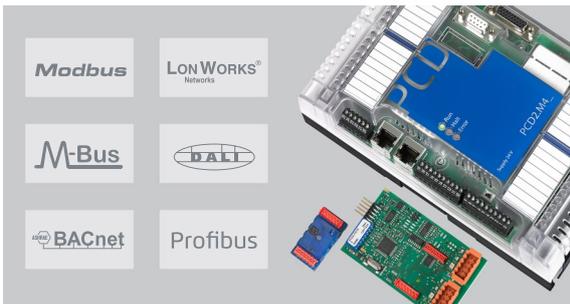
Powerful platform in two versions

The basic version PCD2.M4160 comes with 512 KB user program memory. Its «big brother», the PCD2.M4560 has/features a 2 MB user program memory and sufficient processor power for demanding tasks. Its on-board data storage of 128 MB can be extended up to 4 GB.



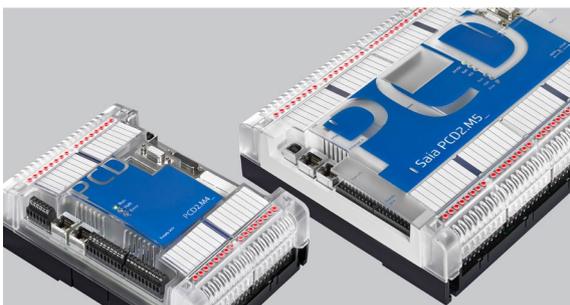
Modular and extendible

The base unit has four slots for input/output modules. The maximum of 64 inputs/outputs can be increased to up to 1024 with the PCD2.C1000/C2000 standard extensions.



Up to 14 communication interfaces

The on-board interfaces on the base unit (Ethernet with 2 port switch, USB, RS-485) can be extended to up to 14 interfaces (RS-232/-485, Modbus, M-Bus, BACnet MS/TP, LON FTT-10, DALI, MP-Bus, Profibus, etc.) with suitable communication cards.



Flat, compact design, compatible with the existing PCD2 family

The PCD2.M4x60 controller is based on the flat, space-saving housing design of the PCD2 family. The modular, powerful base unit is also compatible with the previous generation.



No battery – no maintenance

The new FRAM memory technology ensures maintenance-free operation. This non-volatile memory reliably protects current operating data against loss in the long term even when no power is applied. This makes it possible to do without a battery entirely and thus reduce operating costs.

General data

Technical information	PCD2.M4160	PCD2.M4560
Number of on-board digital inputs	4 digital inputs (24 V, 4 × Interrupt)	
Number of digital inputs/outputs in the base unit or I/O module slots in the base unit	64 4	
Number of digital inputs/outputs extendible with PCD2.C2000 and PCD2.C1000 module holders or I/O module slots	– –	1024 60
Processing times [μs]	Bit operation / word operation 0.1...0.8 μs / 0.3 μs	
Real time clock (RTC)	Yes	
Supercap to support the real time clock	> 10 days	
Slot for optional battery holder module, order number 4 639 4898 0	Yes, to support the real time clock for > 3 years	

On-board memory

Program memory, DB/Text (flash)	512 KB	2 MB
Main memory, DB/Text (RAM)	128 KB	1 MB
User flash file system (INTFLASH)	8 MB	128 MB

On-board interfaces

USB 1.1	≤ 12 Mbps	
Ethernet, 2 port switch	≤ 10/100 Mbps, full-duplex, autosensing, autocrossing	
RS-485 on terminal block (Port 0)	≤ 115.2 Kbps	
RS-485 on sub D connector (Port 2), galv. separated	No	≤ 115.2 Kbps

Other interfaces

PCD2.F2xxx modules for RS-232, RS-422, RS-485, BACnet MS/TP, Belimo MP-Bus, DALI and M-Bus	I/O slot 0...1 2 modules	I/O slot 0...3 4 modules
Slot A for PCD7.F1xxx modules	Yes	
Slot C for Profibus module PCD7.F7500	No	Yes

General data

Supply voltage (acc. to EN/IEC61131-2)	24 VDC –20/+25% max., incl. 5% ripple
Power consumption	typically 15 W with 64 I/O
Load capacity 5 V / +V internal	max. 800 mA / 250 mA

Order information

Type	Description
PCD2.M4160	PCD2 processor unit with Ethernet-TCP/IP, 512 KB program memory, 64 I/O
PCD2.M4560	PCD2 processor unit with Ethernet-TCP/IP, 2 MB program memory, 1024 I/O

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