PLC Tecomat SmartFox – basic module without I/Os

Type	DI	DO	AI	AO	Comm
CP-5000					Ethernet, CIB, RS-485, RFox II

Basic features

- Programmable controller (PLC)
- Outstanding integration of controller together with the IT and telecommunications technologies in one device.
- Built in RFox II Master – wireless I/O system in the 868.1 MHz band.
- Powerful CPU with unique combination of on board I/Os suitable for HVAC applications.

CPU features

- Easy and intuitive graphical programming.
- Multi-platform IDE runs on Windows, MAC and Linux.
- Programming and data communication is available over Ethernet connection.
- Serial port with RS-485 interface.
- Optional RFox II interface for wireless remote I/O modules.
- CIB interface for remote I/O modules.
- Built-in JSON driver for scada.
- Built-in web server.
- Internal Real Time Clock circuit.
- Internal remanent memory.

Connecting

- Removable screw terminals.
- Compact form-factor for DIN rail mounting (1.5 modules width) for standard circuit breaker cabinets.
- More PLCs can be networked by Ethernet or by RS-485 bus.

Use

- Can be used as a powerful control system in process and building control, mainly in HVAC applications.
- Can be used as independent programmable data logger of any measured or internal data point with time stamping.

Features of CPU

CPU	32-bit RISC processor
Real Time Clock (RTC)	Yes
Backup period of remanent memory	Infinite
Backup period of RTC	typ. 6 days
User program memory	64 kB Flash 32 kB RAM 4 kB remanent

Communication

Serial port	RS-485
Network	Ethernet
Remote I/O bus	CIB
Wireless network	RFox II (868.1 MHz)

Power supply

Power supply voltage	24 V DC
Allowed range	+25%, -15%
Max. input power	3 W PLC + 24 W CIB
Galvanic isolation	No

Conductors cross-section	max. 2.5 mm^2

Operational conditions

Operating temperature	–20 ÷ +55 °C
Storage temperature	–25 ÷ + 70 °C
IP Degree of protection (IEC EN 60 529)	IP 10B
Overvoltage Category	II
Degree of pollution (IEC EN 61131-2)	2
Working position	Vertical
Installation	On DIN rail
Connections	Screw terminals