



The PMC-518D RTU is an intelligent remote terminal unit, featuring quality construction, DIN rail mount and a large, easy to read LCD display. It comes standard with 18 self-excited Digital Inputs for status monitoring or utility pulse counting and optionally provides 6 or 8 Digital Outputs for remote control applications and two Analog Inputs for interfacing with external transducers. Further, the SOE Log records all setup changes, DI status changes and DO operations in 1ms resolution. With the standard RS-485 port and Modbus RTU protocol support, the PMC-518D becomes a vital component in any building, factory, substation or utility automation systems.

Applications

- Status monitoring
- Remote control
- Utility pulse counting for WAGES applications
- Substation, building, factory and utility automation

Features Summary

Ease of use

- Large, backlit, easy to read LCD display
- Simple, password-protected setup via front panel or free PMC Setup software
- Easy installation with DIN rail mounting, no tools required

SOE Log

- 128 events time-stamped to ± 1 ms resolution
- Setup changes and I/O operations

Digital Inputs

- 18 channels for external status monitoring or utility pulse counting with programmable scales for collecting WAGES information
- Volts free dry contact, 24VDC internally wetted
- 1000Hz sampling

Digital Outputs (Optional)

- 6 or 8 channels for remote control applications
- Form A mechanical relays

Analog Inputs (Optional)

- 0-20 / 4-20mA DC input
- Interface with external transducer signals
- Programmable zero and full scales

Communications

- Optically isolated RS485 port
- Baud rate from 1200 to 19,200bps
- Modbus RTU protocol

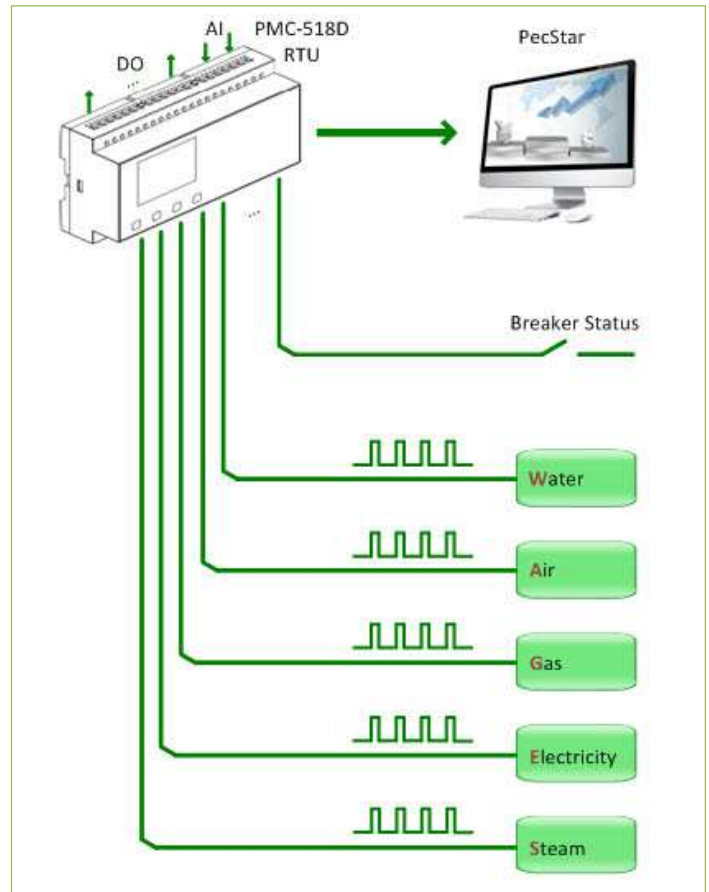
Real-time clock

- Battery-backed real-time clock @ 6ppm or 0.5s/day
- Can be set through front panel or via communications

System Integration

- Supported by our PecStar® iEMS and PMC Setup
- Easy integration into other Automation or SCADA systems via Modbus RTU protocol

Typical Application



Technical Specifications

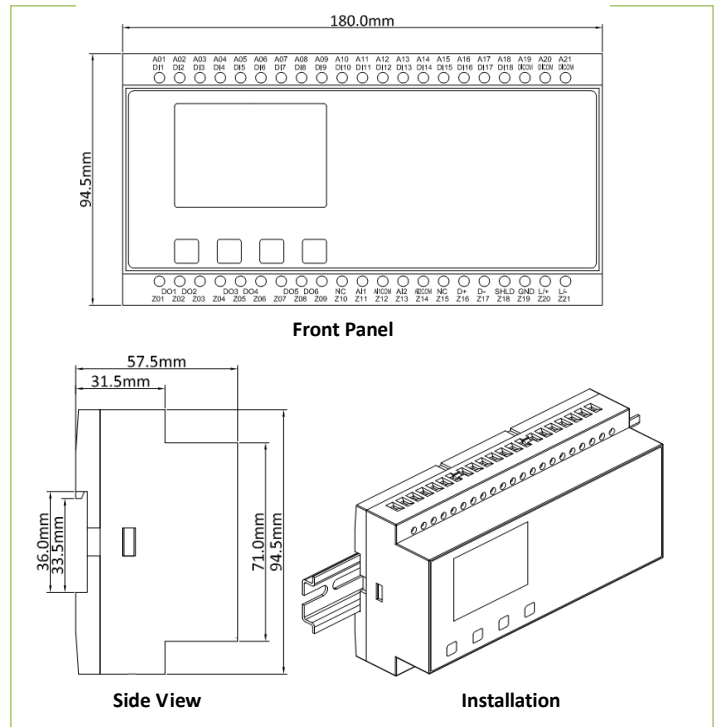
Power Supply (L+, N-, GND)	
Standard	95-250VAC/DC, $\pm 10\%$, 45-65Hz
Burden	5W
Digital Inputs (DI1 to DI18, DICOM)	
Type	Dry contact, 24VDC internally wetted
Sampling	1000Hz
Debounce	1ms minimum
Digital Outputs (DO1 to DO8)	
Type	Form A mechanical relay
Loading	5A @ 250VAC or 30VDC
Analog Inputs (AI1, AI2)	
Type	0-20mA / 4-20mA DC
Accuracy	0.5%
Overload	24mA
Environmental conditions	
Operating temp	-25°C to +70°C
Storage temp	-40°C to +85°C
Humidity	5% to 95% non-condensing
Atmospheric pressure	70 kPa to 106 kPa
Mechanical Characteristics	
Installation	Standard DIN-Rail Mount
Unit Dimensions	180x94.5x57.5mm
IP Rating	52
Shipping Weight	0.7kg
Shipping Dimensions	222x136x100mm

Safety Requirements		
CE LVD 2006 / 95 / EC	EN61010-1-1-2001	
Insulation	IEC 60255-5-2000	
Dielectric test: 2kV @ 1 minute		
Insulation resistance: >100MΩ		
Impulse voltage: 5kV, 1.2/50μs		
Electromagnetic Compatibility		
CE EMC Directive 2004 / 108 / EC (EN 61326: 2006)		
Immunity Tests		
Electrostatic discharge	IEC 61000-4-2:2001 Level III	
Radiated fields	IEC 61000-4-3:2008 (10 V/m)	
Fast transients	IEC 61000-4-4:2004 Level III	
Surges	IEC 61000-4-5:2005 Level III	
Conducted disturbances	IEC 61000-4-6:2006 Level III	
Magnetic Fields	IEC 61000-4-8:2009 Level IV	
Oscillatory waves	IEC 61000-4-12:1995 Level III	
Radio Disturbances	CISPR 22:2006, Level B	
Emission Tests		
Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment	EN 55011: 2009 (CISPR 11)	
Limits and methods of measurement of radio disturbance characteristics of information technology equipment	EN 55022: 2006+A1: 2007 (CISPR 22)	
Limits for harmonic current emissions for equipment with rated current ≤16 A	EN 61000-3-2: 2006+A1: 2009	
Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤16 A	EN 61000-3-3: 2006	
Emission standard for residential, commercial and light-industrial environments	EN 61000-6-3: 2007	
Electromagnetic Emission Tests for Measuring Relays and Protection Equipment	IEC 60255-25: 2000	
Mechanical Tests		
Vibration Test	Response	IEC 60255-21-1 Level I
	Endurance	IEC 60255-21-1 Level I
Shock Test	Response	IEC 60255-21-2 Level I
	Endurance	IEC 60255-21-2 Level I
Bump Test	IEC 60255-21-2 Level I	

Ordering Information

Product Code		Description
PMC-518D		95-250VAC/DC, 45-65Hz
I/O		
B*	18DI + 6DO	
C*	18DI + 2AI	
D*	18DI + 6DO + 2AI	
F*	18DI + 4DO + 4DO (NC)	
G*	18DI + 8DO	
Display Language		
E	English	
PMC-518D - 2 C E		PMC-518D-2AE (Standard Model)

* Additional charges apply

Dimensions and Installation

Your Local Representative
