



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

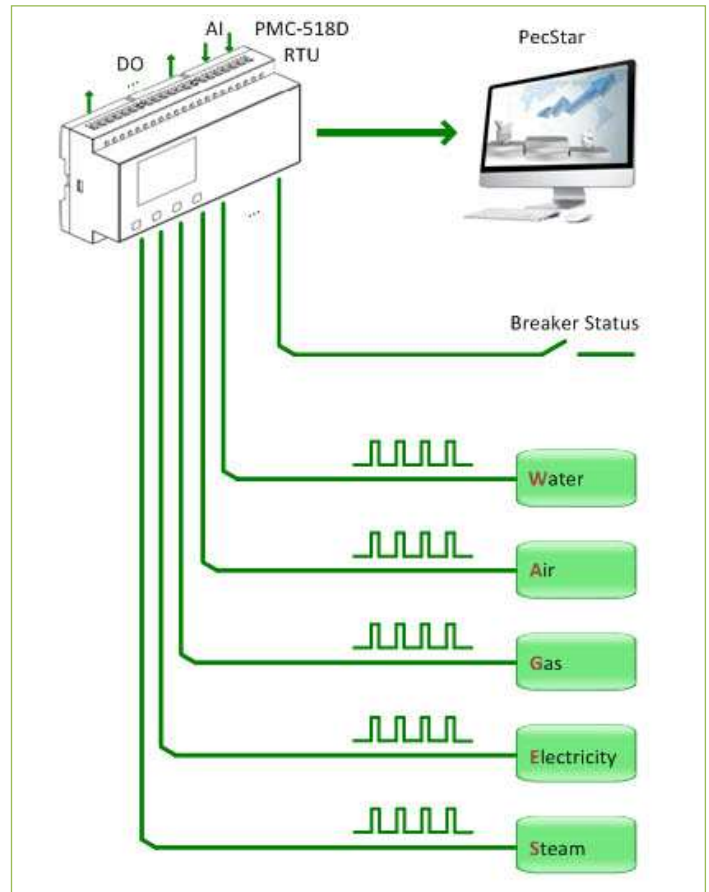
Real-time clock

- 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 Burden | 95-250VAC/DC, $\pm 10\%$, 45-65Hz 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 |

Standards of Compliance

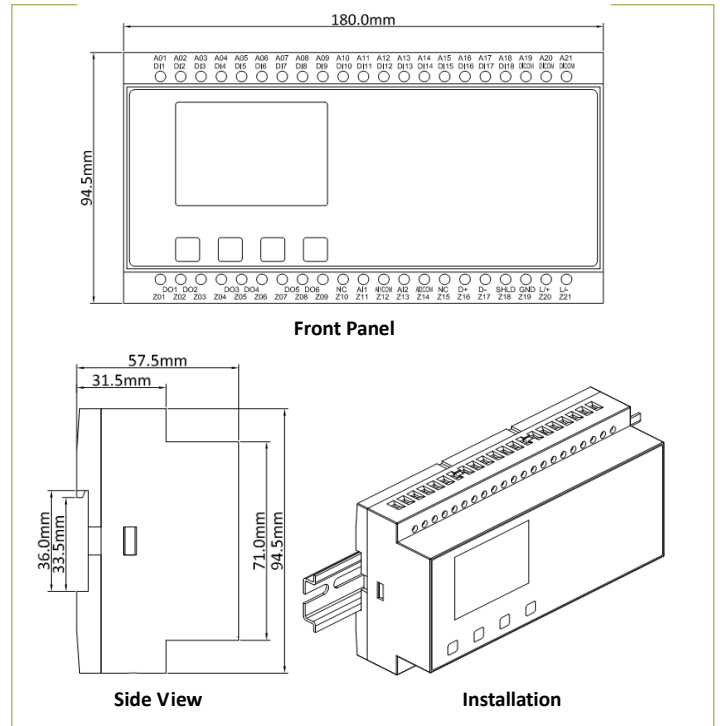
| Safety Requirements | | |
|--|------------------------------------|------------------------|
| CE LVD 2006 / 95 / EC | EN61010-1-1-2001 | |
| Insulation | IEC 60255-5-2000 | |
| Dielectric test: 2kV @ 1 minute | | |
| Insulation resistance: >100MΩ | | |
| Impulse voltage: 5kV, 1.2/50μs | | |
| Electromagnetic 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 RTU | | |
| Power Supply | | |
| 2 | 95-250VAC/DC, 45-65Hz | |
| I/O | | |
| A | 18DI | |
| 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 A E | PMC-518D-2AE (Standard Model) | |

* Additional charges apply

Dimensions and Installation



Your Local Representative

