

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 ±1ms 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

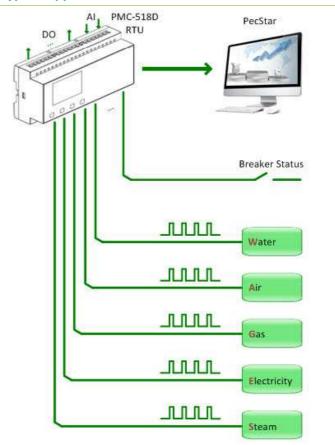
- . Battery-backed real-time clock @ 6ppm or 0.5s/day
- Can be set through front panel or via communications

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, ±10%, 45-65Hz		
Burden	5W		
Digital Inputs (DI1 to DI18, DICOM)			
Туре	Dry contact, 24VDC internally wetted		
Sampling	1000Hz		
Debounce	1ms minimum		
Digital Outputs (DO1 to DO8)			
Туре	Form A mechanical relay		
Loading	5A @ 250VAC or 30VDC		
Analog Inputs (AI1, AI2)			
Туре	0-20mA / 4-20mA DC		
Accuracy	0.5%		
Overload	24mA		
E	nvironmental 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		

Designed For Reliability Manufactured To Last



PMC-518D RTU Remote Terminal Unit

Standards of Compliance

Safety RequirementsCE LVD 2006 / 95 / ECEN6010-1-1-2001InsulationIEC 60255-5-2000Dielectric test: 2kV (#) 1 minuteIEC 60255-5-2000Impulse voltage: 5kV, 1.250µsEtectromagnetic CompatibilityCE EMC Directive 2004 / 108 / EC (EN 61326: 2006)Immunity TestsElectromagnetic CompatibilityCE EMC Directive 2004 / 108 / EC (EN 61326: 2006)Immunity TestsElectrostatic dischargeIEC 61000-4-3:2008 (10 V/m)Fast transientsIEC 61000-4-3:2008 (10 V/m)Fast transientsIEC 61000-4-3:2008 (10 V/m)Gast ansientsIEC 61000-4-3:2008 (10 V/m)Conducted disturbancesIEC 61000-4-3:2008 (10 V/m)Order to Electromagnetic fieldsIEC 61000-4-3:2009 Level IIIMagnetic FieldsIEC 61000-4-3:2009 Level IIIMagnetic FieldsIEC 61000-4-3:2009 Level IIIOrder to ElectromagneticdisturbancesIEC 61000-4-3:2009 Level IIIImistion TestsLimits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipmentEN 55021: 2006+A1: 2007Limits for harmonic current emissions for equipment with rated current <16 ALimits for harmonic current emission standard for residential, commercial and light-industrial environmentsElectromagnetic Emission Tests for <th colspan="6"></th>						
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Endurance IEC 60255-21-2 Level I	Shock Tast	Response	IEC 60255-21-2 Level I			
Bump Test IEC 60255-21-2 Level I		Endurance	IEC 60255-21-2 Level I			
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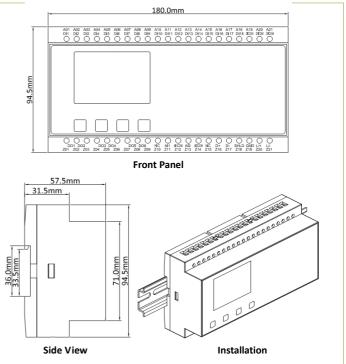
Ordering Information

		Celec Electric Technology Version 20190820	
Product Code		Description	
PMC-518D			
	Power Supply		
	2	95-250VAC/DC, 45-65Hz	
	1/0		
	B*	18DI + 6DO	
	C*	18DI + 2AI	
	D*	18DI + 6DO + 2AI	
	F*	18DI + 4DO + 4DO (NC)	
	G*	18DI + 8DO	
	Display La	Display Language	
	E	English	

* Additional charges apply

Designed For Reliability Manufactured To Last

Dimensions and Installation



Your Local Representative

Revision Date: August 20, 2019