

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

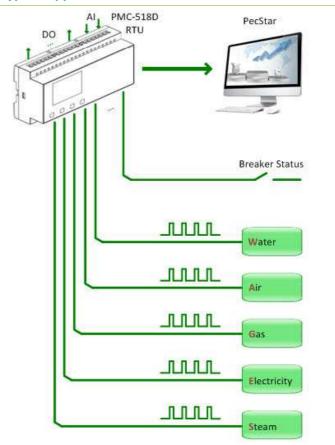
- . Battery-backed real-time clock @ 6ppm or 0.5s/day
- Can be set through front panel or via communications

#### 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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Limits for harmonic current       EN 61000-3-2: 2006+A1: 2009         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       EN 61000-3-3: 2006         current ≤16 A       EN 61000-3-3: 2006         Emission standard for residential,       EN 61000-6-3: 2007         commercial and light-industrial       EN 61000-6-3: 2007         environments       EN 61000-6-3: 2007         Electromagnetic Emission Tests for       Measuring Relays and Protection         Equipment       IEC 60255-25: 2000         Electromagnetic Emission Tests for         Measuring Relays and Protection       IEC 60255-21:1 Level I         Equipment       Endurance       IEC 60255-21:1 Level I         Shock Test         Response       IEC 60255-21:2 Level I         Endurance       IEC 60255-21:2 Level I	characteristics of information		(CISPR 22)			
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current ≤16 A       Initiation of voltage fluctuations         and flicker in low-voltage supply       FN 61000-3-3: 2006         systems for equipment with rated       FN 61000-3-3: 2006         current ≤16 A       FN 61000-3-3: 2007         Emission standard for residential,       FN 61000-6-3: 2007         commercial and light-industrial       FN 61000-6-3: 2007         environments       FN 61000-6-3: 2007         Electromagnetic Emission Tests for       FN 61000-6-3: 2007         Measuring Relays and Protection       IEC 60255-25: 2000         Equipment       IEC 60255-25: 2000         Vibration Test       Response         Yibration Test       Response         Shock Test       Response         IEC 60255-21-1 Level I       IEC 60255-21-2 Level I	Limits for harmonic current					
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       ELC 60255-25: 2000         Vibration Test         Vibration Test         Response       IEC 60255-21-1 Level I         Endurance       IEC 60255-21-2 Level I         Shock Test       Response         IEC 60255-21-2 Level I       IEC 60255-21-2 Level I	emissions for equip	ment with rated	EN 61000-3-2: 2006+A1: 2009			
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 → Protection Equipment       IEC 60255-25: 2000         IEC 60255-21: 1 Level I         Vibration Test         IEC 60255-21-1 Level I         Vibration Test         Shock Test         IEC 60255-21-1 Level I         IEC 60255-21-1 Level I         IEC 60255-21-1 Level I	current ≤16 A					
systems for equipment with rated       EN 61000-3-3: 2006         current ≤16 A       Emission standard for residential,         commercial and light-industrial       EN 61000-6-3: 2007         environments       EN 61000-6-3: 2007         electromagnetic Emission Tests for       Electromagnetic Emission Tests for         Measuring Relays and Protection       IEC 60255-25: 2000         Equipment       IEC 60255-21-1 Level I         Vibration Test       Response       IEC 60255-21-1 Level I         Shock Test       Response       IEC 60255-21-2 Level I         Endurance       IEC 60255-21-2 Level I	Limitation of voltage	e fluctuations				
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Electromagnetic Emission Tests for Measuring Relays and Protection Equipment       IEC 60255-25: 2000         Vibration Test         Wechanical Tests         Vibration Test         Response       IEC 60255-21-1 Level I         Endurance       IEC 60255-21-2 Level I         Shock Test       Response         IEC 60255-21-2 Level I	commercial and ligh	nt-industrial	EN 61000-6-3: 2007			
Measuring Relays         Protection         IEC 60255-25: 2000           Equipment         IEC 60255-25: 2000           Mechanical Tests           Total Tests           Vibration Test         Response         IEC 60255-21-1 Level I           Endurance         IEC 60255-21-2 Level I         IEC 60255-21-2 Level I           Shock Test         Response         IEC 60255-21-2 Level I	environments					
Equipment         Mechanical Tests           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	Electromagnetic Emission Tests for					
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	Measuring Relays and Protection		IEC 60255-25: 2000			
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Vibration Test     Endurance     IEC 60255-21-1 Level I       Shock Test     Response     IEC 60255-21-2 Level I       Endurance     IEC 60255-21-2 Level I		Mechan	ical Tests			
Endurance     IEC 60255-21-1 Level I       Shock Test     Response     IEC 60255-21-2 Level I       Endurance     IEC 60255-21-2 Level I	Vibration Test	Response	IEC 60255-21-1 Level I			
Shock Test Endurance IEC 60255-21-2 Level I		Endurance	IEC 60255-21-1 Level I			
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			
	Bump Test		IEC 60255-21-2 Level I			



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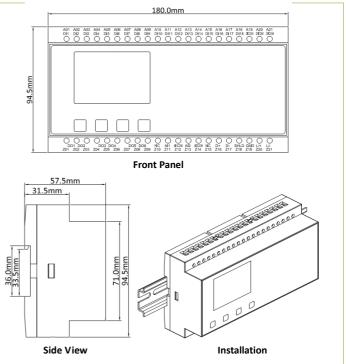
## **Ordering Information**

		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