Single phase power-sensor, CT

1-phase power-sensor, current transformer



Model number:		PM1-E-D-CT	
Connect to:		MC-230	
		RS485 power sensor bus A - B	
Mounting:		DIN rail, 1M, 18 mm	
Dimensions:		18 × 62 × 119 mm	
Used for measuring power and energy of			
✓ sir	single-phase energy sources		
 ✓ sir 	single-phase energy consumers		

Applications

• Digital multi-function power sensor for single phase networks

Features

- DIN rail mounting with 50A current transformer
- Compact design in a single module 18mm wide
- Seal-able cover(phase and neutral terminals)

General description

The PM1-E-D series is an advanced single phase energy monitoring solution with built-in configuration push button and LCD data displaying, particularly indicated for active energy and other parameters metering and for cost allocation. Housing for DIN-rail mounting, IP51 protection degree.

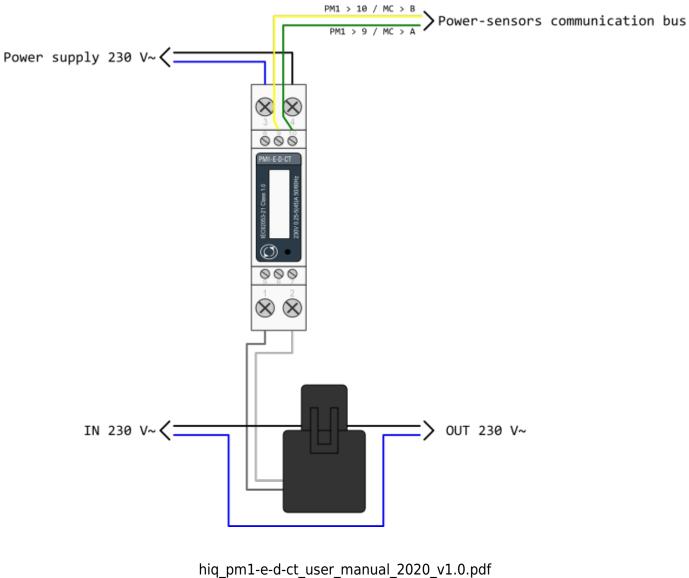
Technical specifications

Technical Data	
Operating Humidity	≤ 75%

Storage Humidity $\leq 95\%$ Operating Temperature $-20^{\circ}C + +50^{\circ}C$ International StandardIEC 62033-21AccuracyClass 1MountingDIN rail (DIN 43880)SealingIP51 IndoorNominal Voltage Input(Ph+N) 230V AC (176-276V AC)Ac Voltage Withstand4KV for 1 minuteImpulse Voltage Withstand0.25-5A(6)A AC RMSQuerant Input0.25-5A(6)A AC RMSOver current withstand20lmax for 0.01sNominal Input Current Barden0.5VAFrequency50Hz(±10%)Power Consumption $\leq 2W/10VA/phase$ AccuracyVoltage, CurrentVoltage, Current0.2% of Mid-FrequencyPower Factor1% of Range MaximumReactive Power, Apparent Power $\leq 1\%$ of Range MaximumReactive Energy (Varh)Class 1Acturey50-60 HzRated current50AAccuracyfrom 20% to 120% of rated currentPower Factor1% of Range MaximumReactive Energy (Varh)Class 1Current transformer50-60 HzRated current50AAccuracyfrom 20% to 120% of rated currentPhase angleless than 2 degrees at 50% of rated currentInsulation voltage600 VACMaximum primary voltage5000 VAC (insulated conductor)Dielectric strength2.5 kV/ImA/IminOperating humidity< 85 %Case materialPC/UL94-V0BobinPermalloyBobinPermalloyProtocol </th <th></th> <th>11</th>		11
Storage Temperature-30°C - +70°CInternational StandardIEC 62053-21AccuracyClass 1MountingDIN rail (DIN 43880)SealingIP51 IndoorNominal Voltage Input(Ph+N) 230V AC (176-276V AC)Max Continuous Voltage120% of nominalAC Voltage Withstand4KV for 1 minuteImpulse Voltage Withstand0.25-5A(6)A AC RMSOperational Current Range0.4% Ib-ImaxOver current withstand20Imax for 0.01SNominal Input Current Burden0.5VAFrequency50H2(±10%)Power Consumption≤ 2W/10VA/phaseAccuracy0.2% of Mid-FrequencyPower Factor1% of Gange MaximumReactive Power, Apparent Power≤ 1% of Range MaximumReactive Energy (Varh)Class 2Active Energy (Varh)Class 1Current transformer5000 VAC (insulated currentPhase angleless than 2 degrees at 50% of rated currentPhase angleless than 2 degrees at 50% of rated currentPhase angle12.5 kV/1mA/1minOperating humidity< 85 %	Storage Humidity	≤ 95%
International StandardIEC 62053-21AccuracyClass 1MountingDIN rail (DIN 43880)SealingIP51 IndoorNominal Voltage Input(Ph+N) 230V AC (176-276V AC)Max Continuous Voltage120% of nominalAC Voltage Withstand4KV for 1 minuteImpulse Voltage Withstand0.25-5A(6) A AC RMSOperational Current Range0.4% Ib-ImaxOver current withstand20Imax for 0.01sNominal Input Current Burden0.5VAFrequency50Hz(±10%)Power Consumption≤ 2W/10VA/phaseAccuracy0.2% of Mid-FrequencyPower Factor1% of Range MaximumReactive Energy (Varh)Class 1Current transformer500 Ac CurrentFrequency0.2% of rade currentPower factor1% of rade currentCurrent transformer500 VAC (insulated conductor)Dielectric strength2.5 kV/1mA/1minOperating temperature-15 to 60°COperating humidity<85 %	Operating Temperature	-20°C - +50°C
AccuracyClass 1MountingDIN rail (DIN 43880)SealingIP51 IndoorNominal Voltage Input(Ph+N) 230V AC (176-276V AC)Max Continuous Voltage120% of nominalAC Voltage Withstand4KV for 1 minuteImpulse Voltage Withstand6KV-1.2µSCurrent Input0.25-5A(6)A AC RMSOperational Current Range0.4% lb-ImaxOver current withstand20Imax for 0.01SNominal Input Current Burden0.5VAFrequency50Hz(±10%)Power Consumption≤ 2W/10VA/phaseAccuracy0.2% of Mid-FrequencyVoltage, Current0.5%Frequency0.2% of Mid-FrequencyPower Factor1% of Range MaximumReactive Power≤ 1% of Range MaximumReactive Power≤ 1% of Range MaximumReactive Power50-60 HzRatic Energy (Wh)Class 1Current transformer50-60 HzFrequency50-60 HzRated current50 AccuracyFrade current50 AccuracyPhase angleless than 2 degrees at 50% of rated currentInsulation voltage5000 VAC (insulated conductor)Dielectric strength2.5 kV/1mA/1minOperating temperature-15 to 60°COperating humidity< 85 %	Storage Temperature	-30°C - +70°C
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Operating humidity< 85 %Case materialPC/UL94-V0BobinPBTCorePermalloyInternal structureEpoxyLeadsUL 1015, Twisted pair, 22 AWGModbusBus TypeBus TypeRS485 (Semi-Duplex)ProtocolModbus RTUBaud Rate1200/2400/4800/9600bpsAddress Range1-247		
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Address Range 1-247		
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Max. Bus Loading 64pcs		
	Max. Bus Loading	64pcs

Communication Distance	1000 Meters
Parity	EVEN/ODD/NONE
Data Bit	8
Stop Bit	1

PM1-E-D-CT Terminals



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