



CT CONNECTED THREE PHASE ENERGY METER (DRS-CT-3P-MOD-2T)

DIGITAL METERING SYSTEM

KEY FEATURES

- Dual Tariff from external input
- Class B (kWh) to EC 2004/22/EC
- CT Connected 1/5A
- DIN-rail enclosure DIN 43880
- Two-pulsed output
- Import / export kWh

TE Connectivity's (TE) Crompton Instruments DRS is a multi-function range of kWh meters.

The DRS-CT-3P-MOD-2T energy meter is an accurate and cost-effective solution for measurement and display of importing and exporting energy parameters for three-phase networks.

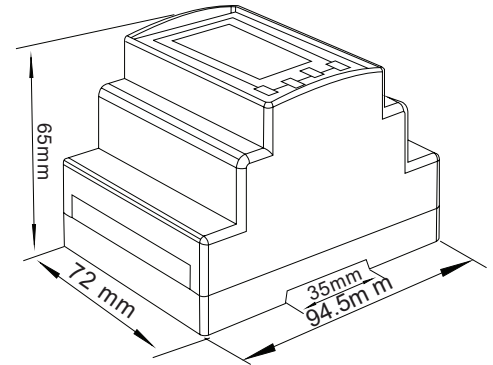
The DRS-CT-3P-MOD-2T is easy to mount, program and read thanks to its user-friendly navigation and backlit LCD display. It has a dual tariff capability for active and reactive energy. The tariff switching is made via external input.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

CT Connected Three Phase Energy Meter



SPECIFICATIONS	
Input	
Nominal input voltage	63.5-276V AC L-N (173-500V L-L) 600V MAX
Max. continuous input overload voltage	120% of nominal
Max. short duration input voltage	2 x nominal voltage for 1 second
Nominal input voltage burden	< 0.2 VA per phase
Nominal input current	1/5A CT connected
Nom. Input current burden	< 0.5 VA
Max. continuous input overload current	120% of nominal
Max. short duration input current	20 x nominal current for (300 msec)
Auxiliary	
Operating range	85-275VAC 50/60Hz; 120-380VDC +/- 10%
Supply burden	< 10 VA
Accuracy	
Voltage (V)	+/- 0.5% of range maximum
Current (A)	+/- 0.5% of range maximum
Frequency (Hz)	+/- 0.2% of mid-frequency
Power factor (PF)	+/- 1% of unity (0.01)
Active power (W)	+/- 1.0% of range maximum
Reactive power (VAR)	+/- 1.0% of range maximum
Apparent power (VA)	+/- 1.0% of range maximum
Active energy (kWh)	+/- 1.0% of range maximum to IEC 62053-21
Reactive energy (kVarh)	+/- 1.0% of range maximum to IEC 62053-24
THD	1% to 31st harmonic
Response Time	1 sec, typical, to >99% of final reading at 50Hz
Measured Range	
Voltage (V)	1-9999 x PT secondary (Max 5MV L-L)
Current (A)	1-9999 x CT Primary (Max 49kA for 5A CT)
Frequency (Hz)	44 - 66 Hz +/- 2%
Power (W, VAR, VA)	5 - 144% of nominal (bi-directional)
Energy	8 digit, upto 9999999.9 kWh / kVarh
Power factor	4 quadrant
THD	0 - 40% upto 31st harmonic
Input Waveform	Sinusoidal (distortion factor < 0.05)
Environment	
Operating temperature	-25°C to +55°C
Storage temperature	-40°C to +70°C
Relative humidity	0 to 95%, non-condensing
Shock	30g in 3 planes
Vibration	10Hz to 50Hz, IEC 60068-2-6, 2g
Dielectric voltage	4kV between circuits and measured inputs
Altitude	3000m
Warm-up	1 minute
Magnetic field of external origin	Terrestrial flux
Outputs	
Pulsed output relay (configurable)	Opto-coupled, potential-free SPST-NO contact
Contact rating current	2-27mA at 27V DC
Contact rating voltage	5-27V DC
Pulse width	60 / 100 / 200 ms
Pulse rate	0.01 / 0.1 / 1 / 10 / 100 kWh / kVarh Default. 1 pulse per Wh/Varh
Pulsed output relay (non-configurable)	3200IMP/kWh
Communications	Modbus RTU (RS485)
Type	2-wire half duplex
Baud rate	2400, 4800, 9600
Address	1 to 247
Parity	None (default)
Stop bits	1 (default) / 2



PRODUCT CODES	
Description	Part number
MID energy meter DUAL TARRIF Three phase DIN-rail mounted CT connected 1/5A Modbus + 2 pulsed outputs	DRS-CT-3P-MOD-2T

te.com/energy

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