



LP-3KW4

Energy Metering



A three-phase kWh meter that is only 71 mm wide.

Semiconductor technology is used to produce a very compact electronic kWh meter as a replacement for electro-mechanical check meters. The meter is a three element device with three CT inputs giving true readings on 4 wire unbalanced systems. In addition to the integral 7 digit counter there is a pulse output for use with data loggers or similar electronic recorders or controllers. The compact circuitry employed allows this meter to be housed in a standard 4M wide Din rail mounting case.

Ordering information: Voltage inputs, VT ratio (i.e. 63.5V, 230V, 11kV/63.5V)
Current inputs, CT ratio (i.e. 1A, 5A, 1000/5A)
Pulse rate (i.e. 1 pulse/kWh, 1 pulse/0.1kWh)
Options: Frequency (60Hz), opto or relay output

Specifications

Input	AC current and voltage, 3 phase 4 wire unbalanced load Current : 3 x 5A (1A optional) CTs - specify CT ratio when ordering Current burden : < 0.1VA Voltage : 3 x 230V Ph-N (others on request) Voltage burden : <0.25mA Frequency : 50Hz or 60Hz - specify when ordering Cutoff : <1 Watt x CT ratio Dynamic range : >500:1
Outputs	: Integral 7 digit electro-mechanical counter with 0.1 or 1 kWh units & : NPN open collector optocoupler or dry contact relay both with 250msec pulses
Accuracy	: Class 1 to IEC 60688 Accurate range : 0 - 120%
Overload	Current input : 2 x nominal continuous : 20 x nominal for 3 seconds Voltage inputs : 1.2 x nominal continuous : 1.5 x nominal for 10 seconds
Isolation	Galvanic isolation between inputs and output circuit Current inputs : 4kV rms 50Hz for 1 minute, Impulse 5kV 1.2/50µsec waveform Voltage inputs to output : 2kV rms 50Hz for 1 minute
Temperature	Operating : 0°C to +23°C to +60°C Storage : -25°C to +70°C long term : -55°C to +85°C short term
EMC Approvals	: AS/NZS 3548 : C-Tick Mark

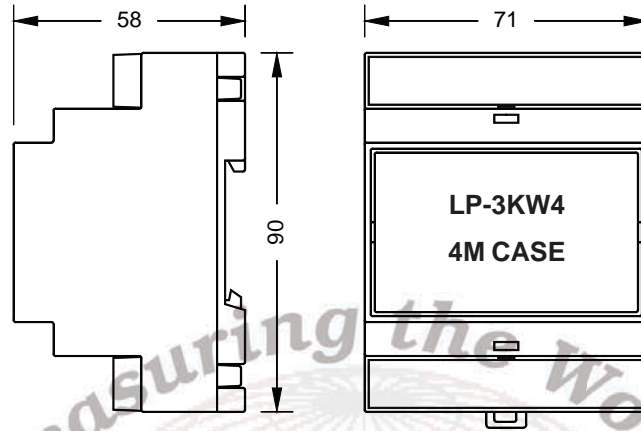




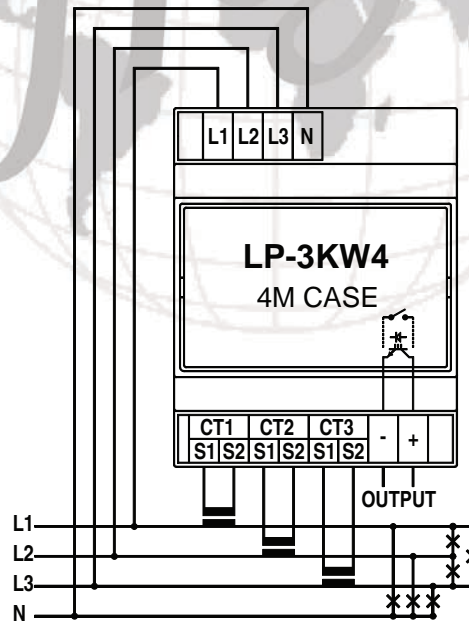
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Dimensions



LP-3KW4 Connections



Output open collector
opto coupler or relay