Hardened TRMS converter for AC and DC signals CPL36 Wattmeter, Voltmeter, Ammeter,.... • RMS measure AC + DC hardened version: Single-phase or balanced three-phase 0...440 Hz with or without neutral PWM, wave train, AC Phase angle variation, high level harmonics signals multi-sensor for current measurement: Shunt, Rogowski coil, Hall effect sensor Programmable: Voltmeter, ammeter, wattmeter, varmeter, power factor, Cos phi, frequency meter DC+AC 4 digits measure display U, I, Cos, P, Q, Hz

2 isolated analog outputs and 2 relay outputs

Wide range universal ac/dc power supply

The CPL36 is a hardened converter for measuring, monitoring and retransmission of electrical parameters. Implementation is fast by simple configuration of ratio transformer or shunt sensitivity. The various output options allow a wide range of application.

Measurement:

- DC or AC network, single-phase or three-phase with neutral
- (configurable PT and CT ratio or shunt sensitivity),
- 600V voltage input range,
- 3 current input ranges: 250mV (external shunt)
- current by Hall effect sensor (+/-4V nominal input, +/-10V peak)
- active power (P), reactive power (Q), apparent power (S),
- cos φ (power factor), frequency 1Hz....440 Hz, - configurable integration time from 10 ms to 60 seconds for the measurement in slow waves train applications.

Front face:

- 4 digit alphanumeric LED matrix display for the measurement
- 2 red LEDs for relay status indication
- 2 push buttons for:
 - The fully configuration of device
 - * Selection of displayed value (U, I, Cos, P, Q, S, Hz)
 - * Setting of alarm thresholds,

Relays (/R option): Up to 2 configurable relays:

- In alarm with monitoring measure : U, I, Cos, P, Q, S, Hz, - Threshold, direction, hysteresis and delay individually adjustable on each relay (on & off delay),
- HOLD function (alarm memorization with RESET by front face)

Analog output (/S option):

- up to 2 isolated analog outputs, fully configurable:
 - type and measure range to monitor: U, I, Cos, P, Q, S, Hz, type and output range (0 .. 10Volt, 0 ... 4 ... 20mA), + /-10V output with coupling the two outputs,
 - Response time (filter), limitation set ... for each outputs.

Configuration:

The CPL36 can be configured via the front face or via the RS232 link. (USB cable -> 3.5 jack available separately)

- Firmware update is possible via this USB-serial link.

Feature:

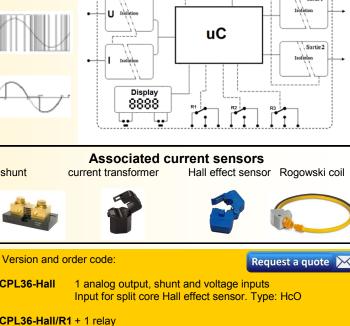
- 23 mm width case, DIN rail mounting (symmetrical),
- protection rating: IP20,
- pluggable terminals block,
- Hinged front face (buttons and serial access),
- conformal coating,

Synoptic: Power supply serial Link U I uC S2 (S1) uC Sortie Display 8888 Associated current sensors shunt current transformer Hall effect sensor Rogowski coil

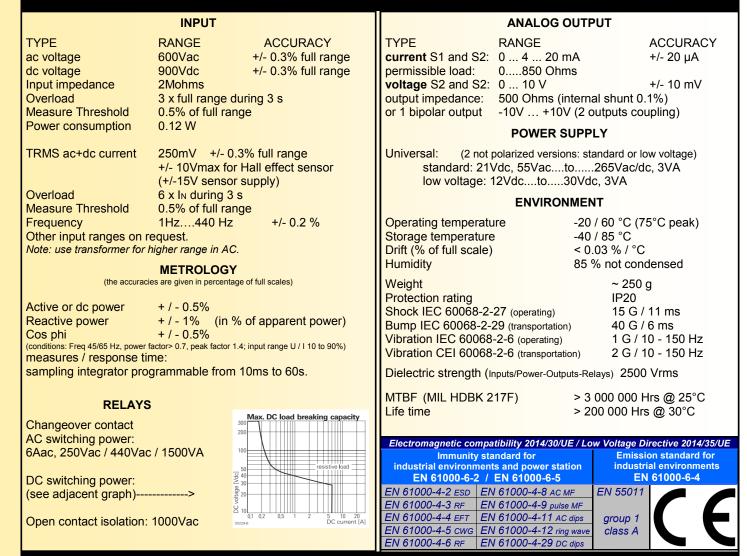
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- CPL36-Hall
 - CPL36-Hall/R1 + 1 relay CPL36-Hall/R2 + 2 relays CPL36-Hall/S2 2 analog outputs
 - CPL36-Rogo Input for Rogowski coil. Type: Rogoflex LT (Up to 2000 Arms)

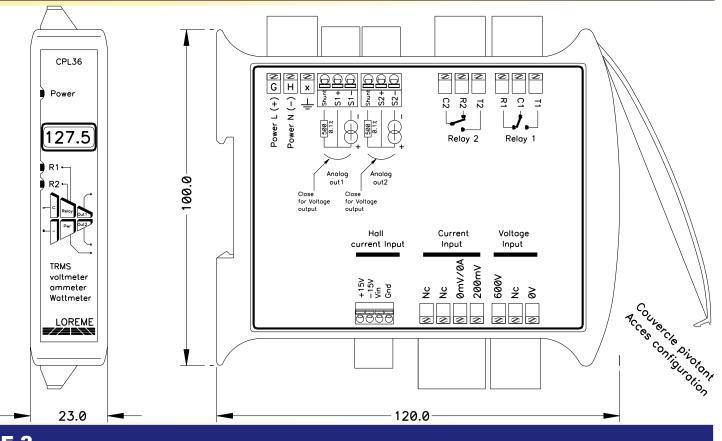
User handbook -> (
PDF)



TECHNICAL SPECIFICATIONS



WIRING AND OUTLINE DIMENSIONS:



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