

• **RMS measures AC + DC:**

Single phase or balanced three phase 0...440Hz
 PWM, wave train,
 Phase angle variation,
 high level harmonics signals.



• **Multi sensor for current measurement:**

Shunt, transformer, Rogowski coil,
 Hall effect sensor or direct input 1A and 5A.

• **Programmable:**

function: voltmeter, ammeter, frequency meter

• **6 digits measure display**

4 digits alphanumerical display for the unit
 Display: U, I, Hz

• **option:**

isolated analog output, 2 relay outputs

RS485 Modbus RTU

Ethernet Modbus TCP (6 concurrent connections) and SNMP

• **Universal ac/dc wide range power supply**



AC

DC+AC

The IPL36L is a digital panel meter for measuring, monitoring and for the transmission of current, voltage and frequency of an AC or DC electrical network. Implementation is fast by simple configuration of input parameters. The various output options allow a wide range of application: measurement, protection, control,

measurement:

- Direct current or alternative current; single phase or balanced three phases (configurable PT and CT ratio or shunt sensitivity).
- 2 voltage input ranges: 150V, 600V others on request up to 1000V.
- 2 current input range: 200mV (external shunt), 1A or 5A internal shunt.
- external Hall effect current sensor (+/- 4V nominal input, +/-10V max)
- configurable integration time from 0.01s to 60 seconds for the measurement in slow waves train applications.
- frequency range from 1Hz to 440 Hz.
- function : hold time of maximal value (voltage and current)

Front face:

- 6 digits LED display, 14.2 mm height for the measure
- 4 digits alphanumeric LED matrix display for the units
- 2 red LEDs for relay status indication
- 3 push buttons for:
 - * The complete configuration of the device
 - * The select of displayed value (U, I, Hz)
 - * The setting of alarm thresholds,

Relays (/R option):

1 or 2 relays, configurable in alarm with selection of the monitored measure (U, I, Hz). Threshold, direction, hysteresis and delay are individually adjustable on each relay (on & off delay).

Analog output (/S option):

1 galvanically isolated analog output, fully configurable:
 type and range for monitor measure: (U, I, Hz)
 type and range for analog output (0 .. 10 V, 0 ... 4 ... 20 mA)
 response time (filter), limitation....

Communication (/C option):

RS485 link Modbus RTU
 Ethernet (RJ45) link Modbus TCP / SNMP , Web server

Configuration:

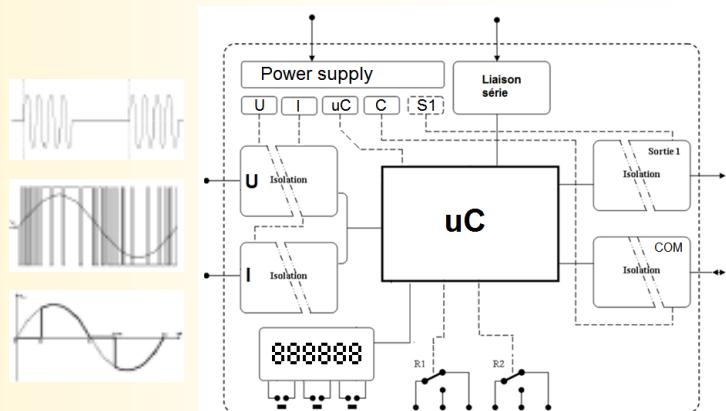
The device can be configured via the front face or with the serial RS232.
 (USB cable -> 3.5 jack supplied separately)

- Firmware update is possible via this USB link.

Feature:

- DIN panel case : 96x48 mm, pluggable connectors,
- protection rating IP20 option IP65, conformal coating,

Synoptic:



Associated current sensors



Version and order code:

[Request a quote](#)

IPL36L	Direct input 1A / 5A or mV with remote shunt
IPL36L-Hall	Input for Split-core Hall effect sensor HcO type (up to +/-1200 A dc+ac)
IPL36L-Rogo	Input for Rogowski coil Rogoflex LT type (up to 2000Arms)
IPL36L/R1	+ 1 relay
IPL36L/R2	+ 2 relays
IPL36L/S	+ 1 galvanically isolated analog output
IPL36L/CM	+ RS485 MODBUS RTU
IPL36L/CMTCP+	ETHERNET MODBUS TCP / SNMP options /S, /CM, /CMTCP are not combinable.

INPUT			ANALOG OUTPUT	
TYPE	RANGE	ACCURACY	TYPE	RANGE
Voltage AC	150 ; 600 V	+/- 0.3% input range	Current	0 ... 4 ... 20 mA
Voltage DC	+/-200 ;+/- 900 V	+/- 0.3% input range	Load	0 ... 750 Ohms
Input impedance	500Kohms - 2Mohms		Voltage on shunt	0 ... 5 ... 10 V 500 Ohms
Overload	2 x input range during 3 s			
Measure threshold	0.5% of input range			
Power consumption	0.12 W			
Current ac/dc	+/-250mV (200mVac) (for shunt 50mV; 60mV; 100mV or split core CT) 1Aac / 5Aac direct input or for current transformer +/- 10Vmax for Hall effect sensor (sensor power supply: +/- 15V)			
Input impedance	0.05 ohms: 5A / 0.25 ohms: 1A			
Overload	6 x input range during 3 s			
Measure threshold	0.5% of input range			
Power consumption	max 1.25 W			
Frequency	0Hz / 1Hz...440 Hz	+/- 0.2 %		
Other input range on request.				
Note: use transformer for greater range in AC.				
- measures / response time:				
sampling integration time programmable from 10ms to 60s.				
Communication				
RS485	600...19200 bps	Modbus RTU	Immunity standard for industrial environments EN 61000-6-2	
Ethernet (RJ45)	10/100 M	Modbus TCP/SNMP	EN 61000-4-2 ESD	EN 61000-4-8 AC MF
			EN 61000-4-3 RF	EN 61000-4-9 pulse MF
			EN 61000-4-4 EFT	EN 61000-4-11 AC dips
			EN 61000-4-5 CWG	EN 61000-4-12 ring wave
			EN 61000-4-6 RF	EN 61000-4-29 DC dips
			Emission standard for industrial environments EN 61000-6-4	
			EN 55011	
			group 1 class A	CE

WIRING AND OUTLINE DIMENSIONS:

panel cutout : 92.5 x 42.5 mm

