

Compact LCD Power Meter - UPM 307

Features:

- True RMS measurement, more than 100 electrical parameters displayed;
- Neutral current monitoring, fully bi-directional four quadrants readings;
- High contrast graphic LCD display with a very large viewing area;
- Power and current demand calculation during user-defi nable time period;
- THD and Individual FFT harmonic analysis up to 15th order;
- No PTs required up to 600 (750)VAC, programmable CT and PT ratios;



Technical specification:

Input voltage	Max. 600 (750)Vac L-L ,max. 0.15VA per phase, 45÷65 Hz
Input current	Programmable 1 / 5ARMS, max. 0.5VA per phase
Input impedance	> 1.3MΩ for voltage, ~ 0.02Ω for current
Current min. / max.	20mA / 7ARMS, 10 / 100ARMS for 1 sec.
Insulation voltage	Max. 150Vac between phases
Accuracy voltage / current	±0.2% reading ±0.1% full scale
Accuracy activ power	±1% reading ±0.2% (PF=1)
Accuracy power factor	±1% reading (0.5 inductive, 0.8 capacitive)
Accuracy active energy	±1% reading (0.5 inductive, 0.8 capacitive)
Display	Back-lighted graphic LCD 132 x 64 dots
Communication	RS232 or RS485 (on request) optoisolated
Real time clock	with battery backup, accuracy ±30ppm
Digital output / input (optoisolated)	no. 2 outputs (50V/100mADC), no. 1 input (19÷130VAC-DC)
Operating conditions	Temperature -10÷60°C, humidity relative max. 80%
Case	Plastic, protection IP 54
Terminals	Conductors 2.5 mm ² , protection IP 20
Size, weight	96x96x60mm or 96x96x105mm, max. 500g depending on the configuration
Safety	73/23/EEC and 93/68/EEC, EN61010.1
EMC	89/366/EEC, 93/31/EEC și 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1
Power supply	230Vac (or 115Vac request) ±15%, consumption max. 2VA

Order code: UPM 307 A-■■■■■■

Protocol	X	None
	B	ASCII standard
	C	Modbus
	L	LON for interface Lonbus
	P	PROFI for interface Profibus
	E	ETH for interface Ethernet
Aux. Power supply	A	115Vac
	B	230Vac
	C	65-250Vac / 90-250Vdc
	R	19-60Vdc
Serial port	X	None
	2	RS 232
	5	RS 485
Software	5	Basic version with THD, V, I
	3	HARM, harmonic 15th + DPF
Digital outputs	2	No. 2 optoisolated outputs NPN
	3	No. 2 optoisolated outputs PNP
Option	X	None
	P	Input Rogowski 200A
	R	Input Rogowski 1000A
	S	Input Rogowski 3000A
	C	Input Rogowski val. request
	T	Temperature sensor

- (1) The basic instrument configuration includes:
- Power supply 230VAC (or 115VAC)+15 - 20%
 - No.2 optoisolated outputs (50V - 100mADC)
 - THD % on voltage and current

- (2) This communication option modifies the following features of the instrument:

- the depth increases from 60mm ÷ 100mm
 - the range of the power supply becomes 65 ÷ 250VAC/90 ÷ 250VDC (or 19÷60VDC, request)
- (3) This option increases the depth of the instrument from 60mm to about 100mm.

