UPM307 DIN 96x96 compact LCD power meter

- Depth 60 mm only
- 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-definable time period
- THD and individual FFT harmonic analysis up to 31^{th} order
- No PTs required up to 600 (750) VAC
- Programmable CT and PT ratios
- Accuracy 0.5% according to IEC/EN 62053-22 for active energy



» General description

UPM307 is a digital meter able to measure the electrical parameters on three-phase systems. It provides accurate measurements even by distorted waveform. The backlighted LCD display is very large and highly efficient, therefore it guarantees perfect visibility in all light conditions.

A simple menu structure makes the instrument easy to use and allows a quick check of the measured parameters.

The working parameters can be easily set up by instrument keypad. The RS485 serial communication port allows to transfer the three-phase electrical parameters from the instrument.

The WINTOOL software can be downloaded for free from Algodue web site and allows to show on a PC all the measured values and to carry out settings in a faster way.

The EVU model is a version dedicated for 3 phases-2 wires-1CT wiring diagram. It allows to select the line voltage and the phase current to be connected to the instrument.

UPM307 replaces multiple analog meters as well as single function meters such as voltmeters, ammeters, wattmeters, varmeters, frequency-meters, powerfactor-meters, energy-meters, etc.

UPM307 is a compact, cost effective meter operating both as a stand-alone device or as an integral part of a more extensive energy monitoring and management network.

» Benefits

- UPM307 is the low cost solution for monitoring of all the main electrical parameters.
- It provides peak average current and power demand information. This data is essential to work out proper strategies aimed at avoiding uncontrolled power peaks and consequent penalties.
- UPM307 being ultra-compact and easy to mount is suitable for replacing conventional meters. UPM307 provides powerful capabilities not offered by traditional analog meters.
- UPM307 allows time and cost saving on mounting, compared to many individual single-function instruments.
- Via communication port it is possible to read and log on a PC all the readings. The remote connection allows to generate on a PC consumption profiles, logged values trends, cost allocation and reports as well as to identify critical values.

» Applications

- Switchboards, gensets, motor control centers, etc.
- Power monitoring & control systems
- Individual machine load monitoring
- Demand management
- Harmonics monitoring
- Remote metering and cost allocation

» Related Products

- MFC150
- Dedalo Software
- Wintool Software



Measurements

- Single-phase and three-phase 3-wire or 4-wire unbalanced load operation.
- True RMS metering provides accurate measurement even for distorted waveform.
- Fully bi-directional, four-quadrant readings.
- More than 100 electrical parameters measured (instantaneous, demand, peak values, energies, etc.).
- THD calculation on voltage and current.
- Optional FFT analysis up to 15th or 31st order according to the accuracy.
- Direct measurement up to 600 (750) VAC.
- Programmable 1A / 5A current full scale.
- Programmable CT & PT ratios.

Front panel display

- High contrast bright, easy to read, graphic LCD display with a very large viewing area of 79x44 mm.
- White LED display backlighting with 100000 hours minimum lifetime.
- Up to four parameters displayed on the same page.

Communication

- RS485 optoisolated communication port.
- MODBUS or A2 ASCII protocol.
- Communication speed programmable up to 57600 bps.
- Optional built-in Profibus interface.

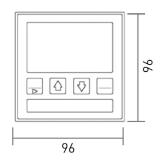
Inputs & outputs

- Two digital outputs for energy pulsing or for alarm tripping.
- On request input for Rogowski coils.

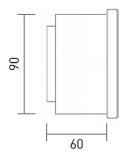
Other

- Real time waveform downloading via communication port. This function allows to represent graphically on the PC the three voltages and the three currents with 128 samples per cycle.
- Available languages: English, German, Italian, French.

» Technical drawing



INSTANTANEOUS MEASUREMENTS		
PHASE VOLTAGE	V _{L1-N} - V _{L2-N} - V _{L3-N} [V]	•
LINE VOLTAGE	V _{L1-L2} - V _{L2-L3} - V _{L3-L1} [V]	•
SYSTEM VOLTAGE	V [V]	•
LINE CURRENT	I _{L1} - I _{L2} - I _{L3} - I _N [A]	
SYSTEM CURRENT	I [A]	
POWER FACTOR	PF ₁₁ - PF ₁₂ - PF ₁₃	•
SYSTEM POWER FACTOR	PF	•
DISPLACEMENT POWER FACTOR (COSØ)	DPF _{L1} - DPF _{L2} - DPF _{L3}	0
APPARENT POWER	S _{L1} - S _{L2} - S _{L3} [VA]	
SYSTEM APPARENT POWER	S [VA]	
ACTIVE POWER	P ₁₁ - P ₁₂ - P ₁₃ [W]	
SYSTEM ACTIVE POWER	P [W]	
REACTIVE POWER	Q _{L1} - Q _{L2} - Q _{L3} [var]	
SYSTEM REACTIVE POWER	Q [var]	
FREQUENCY	f [Hz]	•
DEMAND (AVERAGE VALUES)	3 xI _{AVG} - S _{AVG} - P _{AVG}	•



INSTANTANEOUS MEASU	IREMENTS	
VOLTAGE THD	THD _{L1} - THD _{L2} - THD _{L3} [%]	
CURRENT THD	THD _{L1} - THD _{L2} - THD _{L3} [%]	
FFT ANALYSIS	[%, V, A]	0
PHASE SEQUENCE	123 / 132	•

STORED DATA		
SYSTEM ACTIVE ENERGY	[Wh]	
SYSTEM APPARENT ENERGY	[VAh]	
SYSTEM LAGGING REACTIVE ENERGY	[varh ind]	
SYSTEM LEADING REACTIVE ENERGY	[varh cap]	
PEAK VALUES $3xV_{L-N} - 3xV_{L-L} - 3xI_{L} - 3xI_{AVG} - I$	N - P _{AVG} - S _{AVG}	٠

LEGEND

- = Standard
- O = Optional
- = Bi-directional value



» Specifications

Rated voltage: 250 VAC 158 - 20% consumption: 250 VAC on request consumption: 29 VA max VOLTAGE INPUTS 500 (750) VMC max LL Maximum measurable voltage: 600 (750) VMC max LL Burden: 0.15 VA max per phase Frequency: 45 - 65 Hz CURRENT INPUTS (TRMS) 1.75 A programmable Maximum overfoad: 10 A continuous - 100 Afor 1 sec Input impedance: 0.07 Ofm approximately Burden: 0.5 VM max ber phase Insulation voltage: 0.05 VM max ber ween phases Rogowski input: 200 - 200 (750) VMC max ber phase Insulation voltage: 0.05 VM max ber ween phases Rogowski input: 200 - 200 (750) VMC max ber phase Insulation voltage: 40.28 reading from 10% to full scale Rogowski input: 200 - 200 (750) VMC max ber phase Insulation voltage: 40.28 reading from 10% to full scale Rogowski input: 200 - 200 (750) VMC max ber phase Insulation voltage: 40.28 reading from 10% to full scale Rogowski input: 20.28 reading from 10% to full scale Rogowski input: 40.28 reading from 10% to full scale Rogowski input: 40.28 reading from 10% to full scale Rogowski input: 40.28 reading from 10% to fa	POWER SUPPLY	
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DISPLAY AND OPERATING CONTROLS Display: back-lighted graphic LCD 132x65 dots Keypad: 4 push-buttons COMMUNICATION PORT PROFIBUS on request Type: RS485 optoisolated PROFIBUS on request programmable from 300 to 57600 bps up to 12 Mbps in case of PROFIBUS PROFIBUS REAL TIME CLOCK A2 ASCII or MODBUS or PROFIBUS REAL TIME CLOCK *30 ppm DIGITAL OUTPUTS vith battery backup Relative humidity: 80% max without condensation MECHANICAL CHARACTERISTICS Protection degree: Protection degree: IPS4 (front panel); IP20 (terminals) Terminals: conductors 2.5 mm² Size / weight: 96x96x60 mm with power supply 250 VAC +15%-20% 96x96x100 mm with power supply 56250 VAC / 90250 VDC or 1960 VDC 500 g max, depending on the configuration		
Display:back-lighted graphic LCD 132x65 dotsKeypad:4 push-buttonsCOMMUNICATION PORTType:RS485 optoisolatedProgrammable from 300 to 57600 hpsBaud rate:programmable from 300 to 57600 hpsup to 12 Mbps in case of PROFIBUSProtocol:A2 ASCII or MODBUS or PROFIBUSREAL TIME CLOCKType:with battery backupAccuracy:±30 pmDiGITAL OUTPUTSType:2 NPN or PNP optoisolated (50 V- 100 mADC)ENVIRONMENTAL CONDITIONSOperating temperature:from -10°C to +60°CStorage temperature:from -25°C to +75°CRelative humidity:80% max without condensationMaterial:plastic enclosureProtection degree:IP54 (front panely): IP20 (terminals)Terminals:conductors 2.5 mm²Size / weight:%05%6X100 mm with power supply 230 VAC +15% -20%Softy:my depending on the configurationStanDARD COMPLIANCESafety:S7/25/EEC and 93/68/EEC directives, EN 6101.1 safety standardEMCLARD COMPLIANCES9/33/I/EEC and 93/68/EEC directives, EN 6101.1 safety standard	Frequency:	±0.02% reading ±1 digit from 45 to 65 Hz
Keypad:4 push-buttonsCOMMUNICATION PORTType:RS485 optoisolated PROFIBUS on requestBaud rate:programmable from 500 to 57600 bps up to 12 Mbps in case of PROFIBUSProtocol:A2 ASCII or MODBUS or PROFIBUSProtocol:A2 ASCII or MODBUS or PROFIBUSREAL TIME CLOCKTType:with battery backupAccuracy:±30 ppmDIGITAL OUTPUTSYon or PNP optoisolated (50 V - 100 mADC)ENVIRONMENTAL CONDITIONSYon -25°C to +75°CRelating temperature:from -10°C to +60°CStorage temperature:from -25°C to +75°CRelative humidity:80% max without condensationMECHANICAL CHARACTERISTICSMaterial:Protection degree:IP54 (front panel); IP20 (terminals)Terminals:conductors 2.50 mm²Size / weight:96x96x60 mm with power supply 230 VAC +15% -20% 96x96x100 mm with power supply 53.0VAC / 90250 VDC or 1960 VDC 500 g max, depending on the configurationSTADARD COMPLIANCESafety:Safety:73/23/EEC and 93/68/EEC directives, EN 610.01 safety standardEMC:893/51/EEC directive and following modifications 93/31/EEC and 93/68/EEC directive and following modifications	DISPLAY AND OPERATING CONTROLS	
COMMUNICATION PORT Type: RS485 optoisolated PROFIBUS on request Baud rate: programmable from 300 to 57600 bps up to 12 Mbps in case of PROFIBUS Protocol: A2 ASCII or MODBUS or PROFIBUS REAL TIME CLOCK Type: with battery backup Accuracy: ±30 ppm DIGITAL OUTPUTS Type: 2 NPN or PNP optoisolated (50 V - 100 mADC) ENVIRONMENTAL CONDITIONS Operating temperature: from -10°C to +60°C Storage temperature: from -10°C to +50°C Storage temperature: from -25°C to +75°C Relative humidity: 80% max without condensation MECHANICAL CHARACTERISTICS Material: Protection degree: IP54 (front panel); IP20 (terminals) Terminals: conductors 2.5 mm² Size / weight: 96x96x100 mm with power supply 230 VAC +15% -20% %6x96x100 mm with power supply 65250 VAC / 90250 VDC or 1960 VDC 500 g max, depending on the configuration STANDARD COMPLIANCE Safety: Safety: 73/23/EEC and 93/68/EEC directives, EN 610.1.1 safety standard EMC: 89/36/EEC directive and following modifications		
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Protection degree: IP54 (front panel); IP20 (terminals) Terminals: conductors 2.5 mm² Size / weight: 96x96x60 mm with power supply 230 VAC +15% -20% 96x96x100 mm with power supply 65250 VAC / 90250 VDC or 1960 VDC STANDARD COMPLIANCE Safety: 73/23/EEC and 93/68/EEC directives, EN 61010.1 safety standard EMC: 89/366/EEC directive and following modifications 93/31/EEC and 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1,		
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Safety:73/23/EEC and 93/68/EEC directives, EN 61010.1 safety standardEMC:89/366/EEC directive and following modifications93/31/EEC and 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1,		
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93/31/EEC and 93/68/EEC, EN50081-2, EN50082-2, EN61326/A1,		
	LINC.	



ORDER	POWER SUPPLY	COM PORT	COM PORT COMMUNICATION PROTOCOL	MEASUREMENTS		ΑϹϹL	JRACY	1/0
CODE	Auxiliary	R \$485	MODBUS (Sign bit)	THD (V, A)	Harmonics, DPF	1%	0,5%	DO
FOR 1/5A CTs (not incl	luded)							
1203.0005.0001	230VAC +15% -20%	•	•	٠		•		•
1203.0013.0001	230VAC +15% -20%	•	•	٠	up to 15 th	•		•
1203.0028.0001	230VAC +15% -20%	•	•	•			٠	•
1203.0031.0001	230VAC +15% -20%	•	•	•	up to 31 st		٠	•

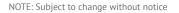
OPTION available only on request (MOQ 30 pcs), to be indicated together with the selected order code from the list above: • PNP type digital outputs

LEGEND
Auxiliary:

DO:

With 230VAC, the instrument depth is 60 mm. 2 NPN type digital outputs for alarm or pulse emission.







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