Electrical network analyser, measure unit

Network:

direct, alternative, single phase, three-phase, balanced, unbalanced, with or without neutral.

- Display: 3 values on 3 digits display. 1 value on 4 digits display, available in red, green, yellow, blue,
- IPL144V/R:
- IPL144V/CM:
- IPL144V/CP:
- IPL144V/CMTCP:

2 relays in alarm or counting,

MODBUS/JBUS RS485 link, PROFIBUS DP RS485 link. Ethernet Modbus TCP link



The IPL144V is an universal electrical network analyser, low cost. The device disposes in standard of measure functions, analysis and feedback informations allowing it to meet to the most of applications.

Applications:

- Measure, control, pilot, regulation, protection.

Measures:

- Direct current and voltage (700 Vdc, 5 Adc),
- Rms alternative current and voltage (500 Vac, 5 Aac),
- Consumed / generated active power, inductive / capacitive
- reactive power, apparent power,
- Inductive / capacitive $\cos \varphi$ (power factor),
- Frequency, 45 to 65 Hz,
- Consumed / generated active energy, inductive / capacitive reactive energy, totalization, saving, Reset in local configuration or in front face buttons
- (if access allowed in configuration),
- Configurable voltage and current transformation ratio.

Front face:

- High luminosity 7 segments display with 14.2 mm red leds, automatic change of scale factor, V-kV, A-kA, kW-MW ... automatic positioning of decimal point, 2 push buttons of display value selection and reset of energy counters (if access allowed in configuration).

- 3 values of 3 digits, resolution 1000 pts, L1, L2, L3 display, selection of values by push button, star voltage, current, frequency, cos phi, active power, reactive power, interlinked voltage.
- 1 value of 4 digits, resolution 10000 pts, display of phase sum, selection of value by push button, active power, reactive power, consumed active energy, inductive reactive energy, generated active energy, capacitive reactive energy.

Outputs:

- The device can include in option :
- 2 configurable relays:
 - in alarm with selection of parameter to monitoring, sense, threshold and hysteresis.
 - in energy counting with counting selection and impulse load.

Current transformer on request



- 1 configurable RS485 MODBUS/JBUS digital link: address.

speed, 600 to 38400 bauds, parity, even, odd or none, data format, 32 bits integer.

GENERAL CHARACTERICTICS:

- Plastic DIN panel case: 144 x 72 x 175,
- Cut-off: 139 x 66, U-link fastening,
- Connection with screw-terminal, section 7.5 mm² for currents inputs, section 2.5 mm² for voltages inputs,
- outputs and power supply. -Tightness IP20 (IP54 in option).

CONFIGURATION:

The device can interact via the RS232 link with any system emulating a terminal. Example: HyperTerminal in Windows. Through the terminal, the user will be able to: - visualize the measures,

configurate device

Version and order code: Request a quote 🔀 IPL144V/R: 2 configurable relays in alarm or counting. IPL144V/CM: RS485 MODBUS RTU link. RS485 PROFIBUS DP link. IPL144V/CP: IPL144V/CMTCP: Ethernet Modbus TCP link.

The options /C and /R can be held concurrently. Note:



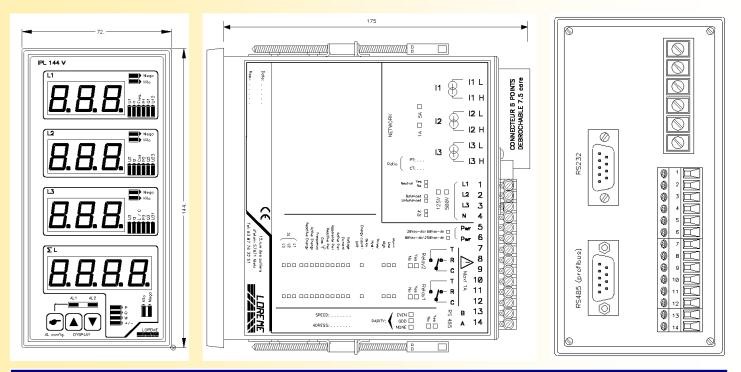
90 days accuracy (20 °C +/- 2	2°C) DATA SHEET CAN BE DOWNLOADED ON	WWW.LOREME.FR	TECHNICAL SPECIFICATIONS
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	INPUTS				REL	AY			
TYPE Voltage Voltage or on request	RANGE 500 Vac (direct) +/- 700 Vdc (direct)	ACCURACY +/- 1.5 V +/- 1.5 V	Switching por Reverser con Counting Rate	1 A / 250 V RT type 2 / s max.					
Voltage	125 Vac (direct) +/- 180 Vdc (direct)	+/- 0.37 V +/- 0.37 V	impulse width	ו		200 ms			
Input impedance Overload Measure threshold Absorbed power Current Current or on request Current	2 MOhms / 500 kOh 3 x UN during 3 s 2 % of caliber 0.125 W / 0.026 W 5 Aac (direct) +/- 5 Adc (direct) 1 Aac (direct)	Horizonta Adverse A				one even er 32 bits integer			
Current Input impedance	80 to 265 Vac / Vdc, 2 VA								
Overload Measure threshold Absorbed power	6 x IN during 3 s 2 % of caliber 1.25 W / 0.25 W		Operating Te Storage temp	mperature perature	-10 to -20 to	0 60 °C 0 85 °C	JULIIONS		
Remark: use a transformer for an upper range (only in alternating)			Influence (% of full scale)< 0.015 % / °C			nsed)			
Frequency	45 to 65 Hz	+/- 0.25 %	Tightness Dielectric strength		IP20 (IP54 in option) 1500 Veff Inputs / Outputs / Power supply				
- Sampling rate: 1 to 5 per second - Response time: 200 to 600 ms				Inputs	s / Outputs	/ Power supply			
METROLOGY			Electromagnetic compatibility						
Active power:	precisions are given in % of the fi +/- 0.6 %		Generic standa	ards: NFEN500	81-2 /	NFEN50082	²² ()	•	
Reactive power: COS φ:	+/- 1 % (in % of appa +/- 0.6 %	arent power)	EN55011	meet		p 1 / class A			
Active energy:	+/- 0.6 %		EN61000-4-2 EN61000-4-4	no influence < +/- 5 %	_	ENV50140 ENV50141	< +/- 5 % < +/- 10 %	A A	
Reactive energy: (conditions: freq. 45/65 Hz, co	+/- 1 % s op>0.7, peak factor 1.4, calibers	U/I 10 to 90 %)	EN61000-4-5 EN61000-4-8	< +/- 5 %		ENV50204	no influence	A	
			EN61000-4-8		B	DBT	73/23/CEE		

WIRING AND OUTLINE DIMENSIONS:

Format: 144 x 72 x 175 mm. Cut-off: 66 x 139 mm



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On account of the constant technologies and standards evolution, LOREME keeps the possibility to modify the specifications of the included products without notice.