

IPL50L

- **IPL50L:** Frequency, current, voltage display
- **IPL50L/R:** 2 alarm relays
- **IPL50L/R3:** 3 alarm relays
- **IPL50L/S:** Analog output
- **IPL50L/C:** MODBUS RS485 link
- **Direct and alternative (40 to 100 Hz)**
- **Fully insulated**
- **Display: 10 000 points**



The IPL50L is an electric network indicator allowing the display, the supervision and the recopy of a voltage or a current as well as its frequency. Fast make use with simple programming of input calibers and transformer ratios. Its various options allows a wide range of applications : measure, regulation, alarm, ...

COMMON FEATURES:

FUNCTIONALITY:

Measure:

- continuous current or voltage (+/- 5 A, +/- 700 V),
- alternative RMS current or voltage (5 Aac, 500 Vac),
- frequency (40 to 100 Hz),
- configurable voltage or current transformation ratio.

Front face:

- 10 000 points resolution, 4 LED digits of 14,2 mm,
- alarm control leds, measure display leds,
- displayed value selection (U, I, F) by push-button, (locking by RS232 configuration),
- automatic decimal point position and unit change (kilo),
- alarms thresholds adjustment by push-button, (locking by RS232 configuration),

Realization:

- connecting by screw terminals,
- slot-in box: 96 x 48 (89 mm depth),
- in option, connecting of current input on threaded rod,
- universal AC and DC power supply.

Working safety:

- input / ouputs / power supply / relays galvanic insulation,
- configuration parameters saved in EEPROM,
- watchdog supervising the program process,
- regeneration of the internal parameters on each measure,
- stability towards ambient temperature variations,

CONFIGURATION:

The device is configure via the RS232 serial link, with any system emulating a terminal.

(no specific software to install on computer)

Example: Hyperterminal program in Windows.

By the intermediary of the terminal, the user will be able to :

- visualize the measure,

or configurate :

- the type of measure,
- the relay operating mode,
- the operating mode of the analog output,
- the operating mode of the RS485 numerical output.

VERSIONS AND ORDER CODE :

IPL50L/S: 1 configurable analog output:

- measure type (U, I, F),
- measure scale,
- output type (current, voltage),
- output scale,
- response time,
- limitation.

IPL50L/C: Configurable numeric output RS485:

- address (1 to 255),
- transmission speed (600 to 19200 bauds),
- parity (even, odd, without),
- MODBUS/JBUS protocol,
- data format in floating 32 bits IEEE, integers 16 bits, integers 32 bits.

IPL50L/R: 2 relays configurable in alarm:

- measure type,
- alarm type,
- threshold,
- hysteresis,
- security,
- temporizing.

Note : The different options above can be held concurrently.

IPL50L/R3: 3 relays configurable in alarm:

- measure type,
- alarm type,
- threshold,
- hysteresis,
- security,
- temporizing.

Note : Specific model without option

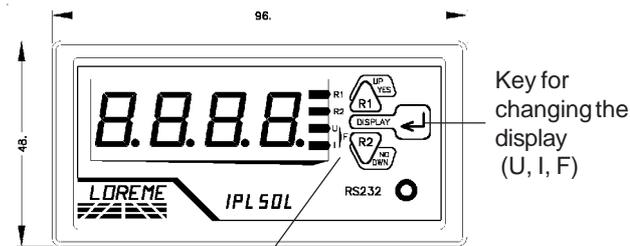
TECHNICAL SPECIFICATIONS

Accuracy at 90 days (20 °C +/- 2 °C) THIS DATA SHEET CAN BE DOWNLOADED ON WWW.LOREME.FR

INPUT			ANALOG OUPUT (IPL50L/S)		
TYPE	RANGE	ACCURACY	TYPE	RANGE	ACCURACY
Alternative voltage	500 V (direct)	+/- 1.5 V	Current	0 ... 4 ... 20 mA	+/- 10 µA
Continuous voltage	+/- 700 V (direct)	+/- 1.5 V	Load	780 Ohms	
and			Voltage	0 / 10 V	+/- 5 mV
Alternative voltage	125 V (direct)	+/- 0.37 V	External shunt	500 Ohms	
Continuous voltage	+/- 180 V (direct)	+/- 0.37 V			
Input impedance	2 MOhms / 600 kOhms				
Overload	3 x UN during 3 s = 1500 V / 375 V				
Measure threshold	5 V / 1.2 V				
Absorbed power	0.125 W / 0.026 W				
Alternative current	5 A (direct)	+/- 15 mA			
Continuous current	+/- 5 A (direct)	+/- 15 mA			
Input impedance	0.05 Ohms				
Overload	6 x IN during 3 s = 30 A				
Measure threshold	0.05 A				
Absorbed power	1.25 W				
Other calibers on request,					
Current	1 A ...	+/- 0.3 %			
Note: use a transformer for an upper range (only in alternative)					
Frequency	40 to 100 Hz	+/- 0.2 %			
measures / response time: 14 measures per second programmable response time from 200 ms to 60 s on the analog output					
RELAYS			ENVIRONMENT		
Commutation capacity:		1 A / 250 V,	Temperature		
Insulated reverser contact:		1500 Vac.	Operating		-10 to 60 °C
			Storage		- 20 to 85 °C
			Influence (% of the full scale)		< 0.03 % / °C
			Humidity		85 % (not condensed)
			Weight		300 g
			Protection		IP20, IP54 and IP65 optional, supplied separately
			Dielectric rigidity		1500 Veff continuous (Input/Pwr/Outputs/Relays)
			Electromagnetic compatibility		
			Generic standards: NFEN50081-2 / NFEN50082-2		
			EN61000-4-2	< +/- 1 %	B
			EN61000-4-4	< +/- 1 %	B
			ENV50140	< +/- 2 %	A
			ENV50141	< +/- 2 %	A
			ENV50204	no influence	A
			EN55011	meet	group 1 class A

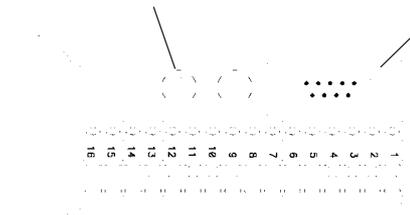
WIRING AND DIMENSIONS:

CUT-OFF FORMAT: 92 x 42



Keys for access to the configuration and the alarm threshold adjustment.

Current input on threaded rod option
Rear panel RS 232 link option



REAR VIEW

