

• **24 bits 0...4...20 mA current input**

Configurable acquisition 7 to 3500 samples / second

Very low noise

< 250 nA at 7 samples / second

< 25 μ A at 3500 samples / second

• **Measure display 1 000 000 pts**

• **4 digits display for the unit**

• **Up to 4 relay outputs**

• **option : Isolated analog output**

RS485 link modbus/profibus

Ethernet Modbus TCP link

• **Pluggable connector**

• **Universal power supply**

• **Applications :** *weighing, rapid process measurement,*

signal conditioning, threshold control, regulation,



The INL36 is a high precision and high speed digital display for demanding applications. the setting is made within a clear language (no manual) and configurable (thresholds) via the communication link.

Description:

Inputs:

- Current with or without sensor power supply.

Calculation functions:

- Square root extraction
- Special linearization on 26 points

Front face :

- Measure display: 7 segments 6 digits led, 14,2 mm height
- Unit display: 4 digits alphanumeric dot matrix led
- 3 push buttons: Fully configuration of the device, alarm threshold adjustment, tare, offset and gain.
- 4 red leds for indication of relay state.

Analog output (option: INL36/S):

- 1 insulated analog output configurable in current or voltage: 0 ... 4 ... 20 mA or 0...1...5...10 V
- adjustable response time and security value.

Relays (option: /R):

- Maximum 4 changeover relay output for alarm, TOR regulation, sensor or input loop breaking detection.
- Threshold, direction, hysteresis and delay individually adjustable on each relay (on and off delay)

Features:

- DIN panel case: 96x48mm
- Pluggable spring terminal blocks 1.5mm²
- Universal switching power supply: 20 ... 265Vac/dc or 9Vdc ... 30Vdc
- Conformal coating.
- Protection rating : IP20 option : IP65

SECURITY / FIABILITY:

- high electromagnetic disturbance immunity, higher than the required for CE marking.
- saving of the configuration parameters in FLASH, safety of data holding > 40 years,
- firmware update via serial USB-RS232 link,
- watchdog supervising the program process,
- 3 ways galvanic insulation inputs/output/power supply,
- suppression of ambient effects with the input circuit self-calibration.

CONFIGURATION:

INL36 can be configured via the front face or via the serial USB-RS 232 link (USB - jack 3.5mm supplied separately).

Warning the RS232 link is not insulated from measure inputs.

With the terminal, the user will be able to:

- visualize and adjust the measure (offset, gain),
- configure the device: input, output, relay, display range,...

Version and order code:

INL36	basic version, 6 digits display.
INL36/R1	+ 1 relay
INL36/R2	+ 2 relays
INL36/R3	+ 3 relays
INL36/R4	+ 4 relays
INL36/S	+ 1 analog output
INL36/CM	+ MODBUS link
INL36/CP	+ PROFIBUS link
INL36/CMTCP	+ ETHERNET MODBUS TCP link
<i>option /S , /CM , /CP , /CMTCP not combinable.</i>	

INPUT

(resolution: 24 bits, reference 5 ppm)

Type	Range	Accuracy
Current	- 2mA to 25 mA	+/- 0.001 mA
Input impedance	100 Ohms	

AUXILIARY

Sensor power supply	22 V regulated +/- 5% (50mA)
Logical input	dry contact / TTL / 24V/...

Analog output (12 bits resolution)

Type	Range	Accuracy
Current	0 ... 4 ... 20 mA	+/- 20 µA
max resistive load:	0.....800 Ohms	
Voltage	0 ... 10 V	+/- 10 mV
Impedance output:	500 Ohms (internal shunt 0.1%)	
Response time (programmable)	from 5 ms to 60 s	

RELAY (INL36/R)

Switching power: 250VAC , 1A (250 VA)

COMMUNICATION (INL36/C)**RS485 link:**

Modbus	from 1200 to 38400 bds.
Profibus-DP	from 9600 to 1.5M bds.
Wiring	2 wires screw terminal.

Ethernet link:

Modbus TCP protocol	10/100 M
Connection	RJ45

POWER SUPPLY

Universal: (2 versions: standard and low voltage not polarized)

Standard: 21Vdc, 55Vac.....265Vac/dc
 low voltage: 9 vdc.....30Vdc.
 consumption < 3 VA

ENVIRONMENT

Operating temperature -10 to +60 °C
 Storage temperature -20 to +85 °C
 Temperature drift < 20 PPM / °C (of full scale)

Humidity 85 % (no condensed)

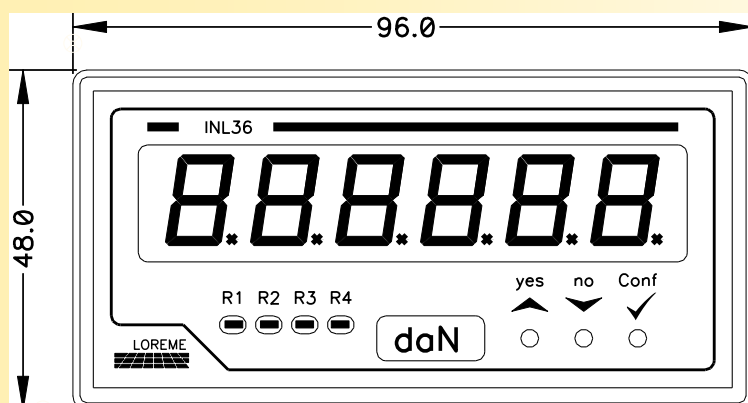
Weight ~ 180 g
 Protection IP20

Dielectric strength 1500 Vrms continuous

MTBF (MIL HDBK 217F) > 4 000 000 Hrs @ 25°C
 life time > 200 000 Hrs @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
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	

**WIRING AND OUTLINE DIMENSIONS:****Cutting : 92.5 x 42.5 mm**