

- **All process inputs**

Volt ,mV, mA, potentiometer,
frequency, strain gauge,
sensor power supply

- **5 digits, 100 000 pts measure display**

- **option:** up to 4 relays



Isolated analog output
RS485 link, Modbus or Profibus
ETHERNET Modbus TCP

- **Universal power supply AC and DC**

- **Fast response time:** 35 ms

- **INL35L :** 96x48mm size

- **INL35LD :** 96x96mm size
double display version

- **Pluggable connectors**



INL35L is a compact universal digital indicator for analog process inputs. It has a wide range of options (relays, communication, analog output).

OVERVIEW:

Process inputs:

- Current with or without sensor power supply,
- Voltage,
- Potentiometer,
- Frequency (tachometer) and duty cycle,
- Namur sensor,
- Strain gauge.

Calculation functions:

- square root extraction
- Special linearization on 26 points

Front face :

- Measure display: 7 segments 5 digits of 14,2 mm led display
- 3 push buttons: alarm threshold, tare adjustment, ...
- 4 red leds for visualization of the relays state.

Analog output (/S option)

- 1 isolated analog output configurable in current 0...4...20 mA or voltage 0...2...10 V
- adjustable response time and security value.

Relays (/R option)

- Up to 4 relay output (changeover contact) usable in alarm, ON/OFF regulation, sensor or input loop breaking detection.
- Threshold, direction, hysteresis and delay individually adjustable on each relay (activation and deactivation delays)

Feature:

- DIN panel case: 96x48mm
- Pluggable screw terminal connectors (1.5mm²)
- Universal switching power supply:
20 ... to ... 265Vac/dc or 9Vdc ... to ... 30Vdc
- Conformal coating.
- IP20 Protection. IP65 in option

SECURITY / FIABILITY:

- high noise immunity, higher than the requirements for CE marking.
- saving of the configuration parameters in FLASH, safety of data holding > 40 years,
- possibility of firmware update via serial RS232 link
- watchdog monitoring the program process,
- galvanic insulation inputs/output/power supply,

CONFIGURATION:

INL35L can be configured via the serial RS 232 link (jack 3.5) under any operating system (no specific software to install). USB to jack cable supplied separately.

Warning the RS232 link is not isolated from measure inputs.

Version and order code :

[Request a quote](#)

INL35L 5 digits display, without option (96 x 48 mm)

INL35LD double displays, without option (96 x 96 mm)

INL35L/R1 + 1 relay.

INL35L/R2 + 2 relays.

INL35L/R3 + 3 relays.

INL35L/R4 + 4 relays.

INL35L/S + 1 analog output.

INL35L/CM + RS485 link with MODBUS protocol.

INL35L/CP + RS485 link with PROFIBUS-DP protocol.

INL35L/CMTCP + ETHERNET MODBUS TCP link.

options /R4, /S, /CM, /CP, /CMTCP are not combinable.

INPUT			Analogical output (INL35L/S). resolution 12 bits		
Type	Range	Accuracy	Type	Range	Accuracy
Low levels voltage Input impedance (on two range : 250mV and 2000 mV)	- 250 to 2000mVdc 1 MOhms	+/- 40uV to +/-1 mV	Current Allowable load:	0 ... 4 ... 20 mA 0.....800 Ohms	+/- 20 µA
Differential voltage Input impedance	- 50 to +50mVdc 1 MOhms	+/- 10 uV	Voltage Impedance output:	0 ... 10 V 500 Ohms (internal shunt 0.1%)	+/- 10 mV
High levels voltage Input impedance	- 25 to +25Vdc 500 kOhms	+/- 0.01 V	Programmable response time	35 ms to 60 s	
Input impedance	- 250 to +250Vdc 5 Mohms	+/- 0.2 V			
Current Input impedance	- 25mA to 25mA 50 Ohms	+/- 0.01 mA			
Frequency Duty cycle Input impedance	0.25Hz / 100 000 Hz 50 Hz 5KHz 100 Kohms	+/- 0.2 % +/- 0.2 %			
Signal level with automatic DC component suppression. All type of sensor: NPN, PNP, NAMUR	4 to 50 V~ peak to peak				
Sampling configurable for any type of input resolution :14 bits @ 60 samples / second) resolution :16 bits @ 15 samples / second)					
internal reference stability	5ppm				
AUXILIAIRY					
Sensor power supply	22 V regulated +/- 5% (50mA)		Operating temperature	-10 to +60 °C	
Potentiometer reference	5 V regulated +/- 0.15% (20mA)		Storage temperature	-20 to +85 °C	
COMMUNICATION (INL35L/C--)					
RS485 link:			Temperature drift	< 20 PPM / °C (of full scale)	
Modbus (INL35L/CM)	from 1,2 to 38,4 kbds.		Relative humidity	85 % (not condensed)	
Profibus-DP (INL35L/CP)	from 9600 to 1.5M bds.		Weight	~ 180 g	
Wiring	2 wires screw terminal.		Protection rating	IP20	
Ethernet link (RJ45) (INL35L/CMTCP)	10/100 M		Dielectric strength	1500 Vrms continuous	
Electromagnetic compatibility 2004/108/CE / Low Voltage Directive 2006/95/EC					
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		
EN 61000-4-3 RF	EN 61000-4-9 pulse MF		group 1		
EN 61000-4-4 EFT	EN 61000-4-11 AC dips		class A		
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: