Field mounted transmitter with loop powered indicator
ATEX SIL2 — *INP201*

- ***LCD display:***
  10000 points
  configurable display range
- ***2 wires technology***
  4-20mA current loop powered
- ***Mounting***
  temperature probe or pipe mounted
  IP65 protection
- ***INP201i:***
  316 Stainless Steel version
- ***INP201H:***
  Hart protocol option
- ***INP201ADF***
  ATEX / IECEx option
  Explosion-proof
- ***SIL2 compliance***
  According to IEC 61508

temperature probes assemblies

Pipe mounting

Stainless steel version

The INP201 is a field mounted transmitter-indicator powered by the 4-20mA current loop.
It includes in a single case (IP65) (explosion-proof ATEX approved) a loop powered programmable converter and a configurable indicator.

DESCRIPTION
Transmitter :
The INP201 can be equipped with any types of analog or digital " Head mounting" transmitters .
Enabling the material integration of all trademarks.

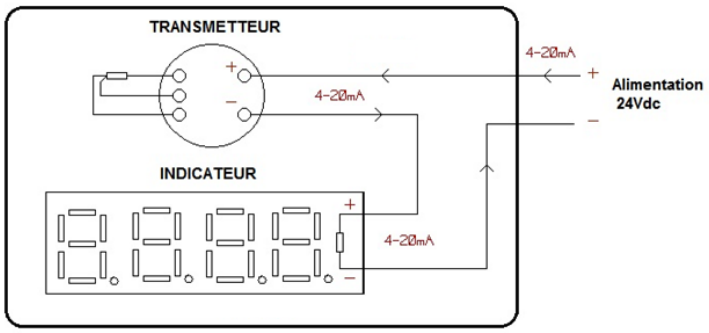
Display :
- powered by the 4..20mA current loop
  (mounted in series with the transmitter),
- LCD liquid crystal display (4 digits, 10000 points) 10mm height, extended temperature
- Configurable display range by push button
  (do not carry out this operation on site if the device is used in hazardous area)

The device must not be opened powered on in hazardous area.

Feature:
- Cast aluminium head + epoxy painting (operating temperature -40°C....+80°C).
- Multiple possibilities of mounting : on wall, on pipe (specify diameter), on temperature sensor.
- Explosion-proof approval coating according to EN50018, certificate (ATEX 6097X/01).
- CE 0081 II2G EExdIICT6 approval.
- IP65 protection rating

Operational safety data:
- SIL 2 : λf = 457 fit , SFF = 95.4 % , DC = 91.8 %
  type B components, HFT = 0

Synoptic:



Version and order code : Request a quote

INP201 :		- cast aluminium head, IP67, epoxy coating
option	**/H :**	HART communication
	/ADF :	Explosion-proof protection
	/i :	316 Stainless Steel head (IP68)
	/SIL2:	SIL2 version according to IEC 61508
		(all options are cumulative)

for direct mounting on thermowell or probe assemblies, definition is done separately (contact us)

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

TECHNICAL SPECIFICATIONS

INPUT (INP201 with cnl40ig embedded)

TYPE	RANGE	ACCURACY (24 bits resolution) CNL40IG
Tc B	200 / 1800 °C	+/- 2 °C
Tc E	-250 / 1000 °C	+/- 0.4 °C
Tc J	-200 / 600 °C	+/- 0.4 °C
Tc K	-200 / 1350 °C	+/- 0.4 °C
Tc R	0 / 1750 °C	+/- 1 °C
Tc S	0 / 1600 °C	+/- 1.5°C
Tc T	-250 / 400 °C	+/- 0.5 °C
T° compensation	-20 to 60 °C	+/- 0.3 °C
2, 3 wire Pt100		+/- 0.3 °C
Pt100 measure range		-200 / 800°C
Voltage	0 /120 mV	+/- 0,02 mV
Current (on external shunt 2,5 Ohms)	0 /30 mA	+/- 0,025 mA
Response time		~ 200 ms
Sampling rate:		6 per second
Input impedance		> 1 MOhms
RTD exciting current		300 µA
Line influence		0.3°C / 10 ohms

POWER SUPPLY / OUTPUT (14 bits resolution)

supply voltage:	16 to 40Vdc (2 wires technology)
Current	4 ... 20 mA +/- 0.01 mA
Load	450 Ohms for 24V supply
Intrinsic power consumption	< 3.6 mA
security current programmable	3.6... 22mA
Power supply influence:	0.002 % / V
Load influence:	0.004 % / 100 Ohms

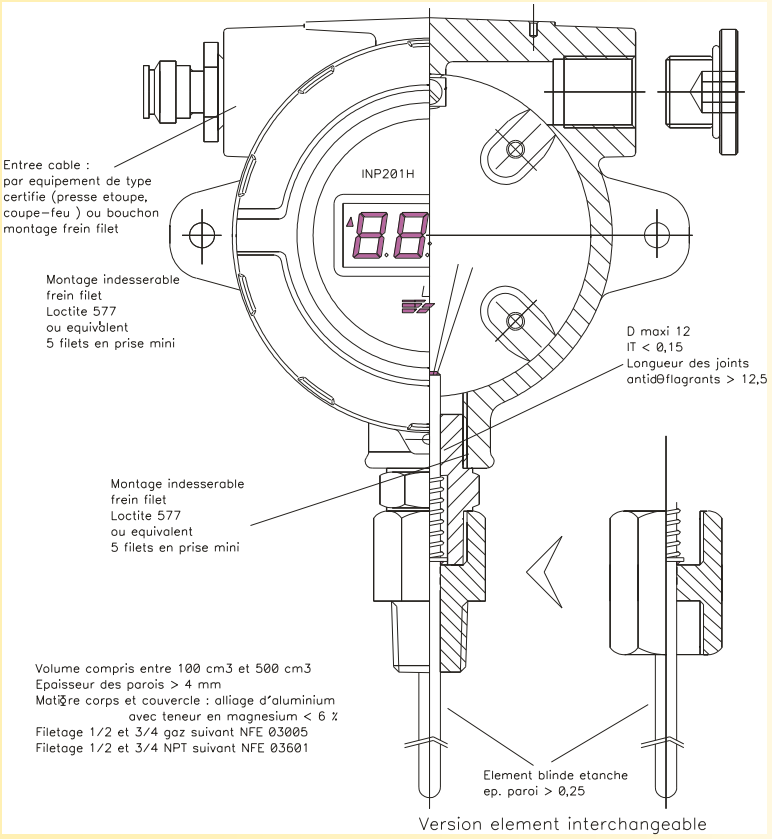
ENVIRONMENT

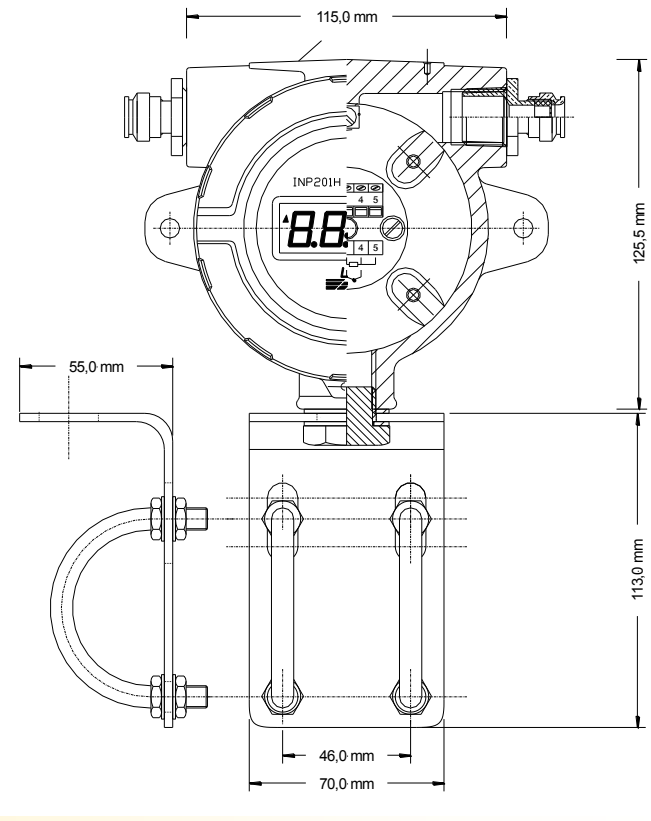
Operating temperature	-30 to 65 °C
Storage temperature	-30 to +85 °C
Thermal drift (% of full scale)	< 0.01 % / °C
Weight	1,4 Kg (without fastening)
Dielectric strength (Input / Output)	1000 Vrms
MTBF (IEC 62380)	> 2 180 000 Hrs @ 30°C
Life time	> 250 000 Hrs @ 30°C

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*
EN 61000-4-3 RF	*EN 61000-4-9 pulse MF*	
EN 61000-4-4 EFT	*EN 61000-4-11 AC dips*	*group 1*
EN 61000-4-5 CWG	*EN 61000-4-12 ring wave*	*class A*
EN 61000-4-6 RF	*EN 61000-4-29 DC dips*	

WIRING AND OUTLINE DIMENSIONS:





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