APPROVED IN ACCORDANCE WITH THE EUROPEAN STANDARD 2014/34/EU - ATEX

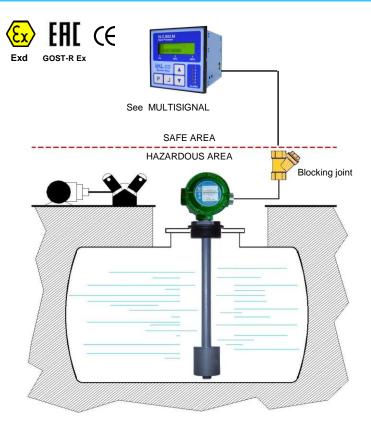
These instruments, explosion-proof certified:

CESI 03 ATEX 272 Ext.2 II 1/2G Exdb IIB T5/T6 Ga/Gb, are used to control the level of liquids or fuels inside tanks, both underground and outdoors, installed in hazardous areas where flammable products are treated.

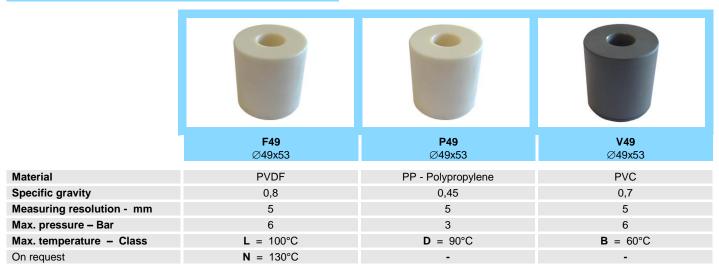
The principle of operation is potentiometric type, based on the gradual shutdown of a chain of resistors and reed contacts, placed inside of the measuring rod by a magnetic float.

GENERAL CHARACTERISTICS

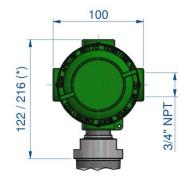
- PVC PP PVDF
- Measuring resolution 5 mm.
- Potentiometric signal output (LC).
- 4-20mA analog output (LCT).
- Up to 5 m length.
- Maximum working pressure 6 Bar.
- Working ambient temperature.
 -40/+40°C = T6, -40/+60 °C = T5
- Standard working temperature up to 130°C.
- Minimum degree of protection IP67
- Built-in temperature sensors, on request.
 PT PTC NTC



FLOATS Tab.1



ELECTRICAL OUTPUT Tab.2



| E1 | IP66/67 Housing – Aluminum - Epoxy painted |
|----|--|
| E3 | IP66/67 Housing – AISI 316 St. steel |
| | |
| | With heatsink - see dimension (*) |
| | LC - LCT = Temperature class N |

We reserve the right to change the data without notice

BE#183/3-10/2017



PROCESS CONNECTIONS

Tab.3

| | Installation from outside – available threads and flange | | | | | | |
|---------------|--|--------|--------|--------|--|--|--|
| Type of float | 50 | DN65 | DN80 | DN100 | | | |
| | 2" | Flange | Flange | Flange | | | |
| F49 | • | • | • | • | | | |
| P49 | • | • | • | • | | | |
| V49 | • | • | • | • | | | |

Male thread

| G | С | N |
|-----------|---------|---------|
| Parallel | Conical | Conical |
| UNI 228/1 | UNI 7/1 | NPT |

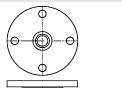
Available materials

| F | Р | V |
|------|----|-----|
| PVDF | PP | PVC |

DN = Available materials

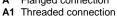
| V | S |
|-----|------------|
| PVC | AISI 316 |
| | On request |

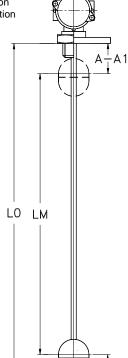
FLANGES



DN = UNI - DIN - ANSI Flanges

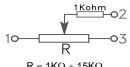
A Flanged connection





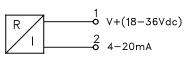
WIRING





 $R = 1 K \Omega \div 15 K \Omega$ Depending on LM

4-20 mA output



 $\begin{array}{c} \text{Max. load 500 } \Omega \\ \text{Power supply } 18 \div 36 \text{ Vdc} \end{array}$

LCT

DIMENSIONS mm. Tab.4

The dimensions L0 and LM are referred to the stop of the fitting (A1) or flange (A) connection. Tolerance on dimension L0 and LM ± 3 mm.

| | F49 | P49 | V49 |
|--------------|-----|-------|-----|
| Α | 25 | 25 | 25 |
| A 1 | 45 | 45 | 45 |
| В | 35 | 35 | 35 |
| Damping tube | _ | -V -S | |

OPTION - Built-in temperature sensor

Only for LC type = On request, it is possible to install a temperature sensor located at the bottom of the rod inside the instrument.

| PT100 - PT1000 | PTC | NTC |
|--------------------------------|---------------------------|------------------------------------|
| EN 60751 - IEC 751 | Resistance a 25°C ≤ 500 Ω | Resistance a 25°C 2-5-10-50-100 KΩ |
| Class B - (Class A on request) | Temperature 60°C ÷ 130°C | Precision ± 5% / ± 3% (on request) |

NOMENCLATURE

| С | V49 | 05 | 1300 / 1380 | ٧ | - V | 50 | G | ٧ | E1 | В | |
|---|-----|----|-------------|---|-----|----|---|---|----|---|-------|
| • | | | | | | | | | | | |
| | • | | | | | | | | | | Tab.1 |
| | | • | | | | | | | | | Tab.1 |
| | | | • | | | | | | | | Tab.4 |
| | | | | • | | | | | | | Tab.3 |
| | | | | | • | | | | | | Tab.4 |
| | | | | | | • | | | | | Tab.3 |
| | | | | | | | • | | | | Tab.3 |
| | | | | | | | | • | | | Tab.3 |
| | | | | | | | | | • | | Tab.2 |
| | | | | | | | | | | • | Tab.1 |

All level controls Exd certified must be connected by interposing the appropriate blocking joints according to the European Standard EN 50018.



LINEAR VF - ATEX E

Request form

