SMERI

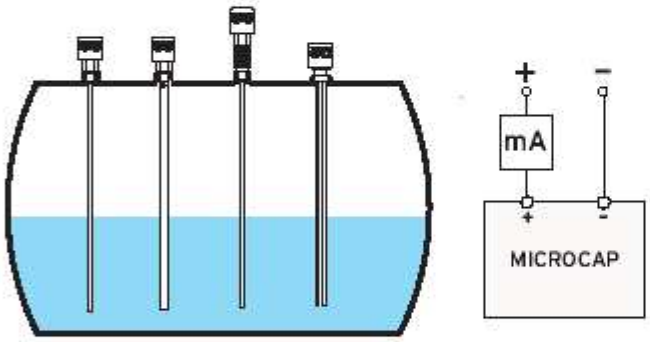
CAPACITIVE TRANSMITTER MICROCAP

- Connection two wires (4 to 20 mA)
- Circuit with microprocessor
- Easy to program
- LCD screen
- Incorporates current simulator
- Different kind of probes
- High temperature version
- Electronic insert

CE

DESCRIPTION

MICROCAP level transmitters are based in the electrical capacity that produces betwen a measurement probe and the tank's wall.
As the liquid reaches the probe, this capacity changes. An electronic circuit measures this changes and converts them in a 4 to 20 mA signal.



The MICROCAP capacitive level transmitter range, is formed by four basical models:

MICROCAP.N
--Probe in PTFE to general applications.

MICROCAP.T
--Probe in PTFE with stainless steel ground tube. To be used in NON METALLIC tanks.

MICROCAP.TE
--Probe in PTFE and squandering thread to process temperature until 125ºC.

MICROCAP.DS
--Double probe in PTFE to non metallic tanks containing aggresive liquids.

All models incorporate in the housing the MODCAP new connecting module. This module contains the electronic circuit with the connection terminals.

EASY PROGRAMMING

1. Using the keyboard, indicate the minimal level that there is in the probe when you are programming.

LOW LEVEL ADJUST.
Enter the actual level in probe
+ and - : 010.0% ->OK

2. The microprocessor calibrates the probe adapting it to the product and to the tank.

Calibrating
PROBE
for low level
.....WAIT....

3. Increase the liquid level the maximum you can. Using the keyboard indicate in % this value.

HIGH LEVEL ADJUST.
Enter the actual level in probe
+ and -:080.0% ->OK

4. Indicate where you want the 4mA in the probe.

OUTPUT ADJUST.
¿Where do you want the 4 mA output?
+ and -: 005.0% ->OK

5. Indicate where you want the 20mA in the probe.

OUTPUT ADJUST.
¿Where do you want the 20 mA output?
+ and -:095.0% ->OK

6. Program between 0 and 4 the filter level you want to avoid oscilations caused by waves.

MEASURE FILTER
Enter filter's level
0 to 4
+ and -: 1 -> OK

7. The screen will indicates the % level and the output corresponding to this level.

049.8 %
12.04 mA

Using this option,you can to generate 4 to 20 mA (jumping 1 mA) in the loop, to make tests.

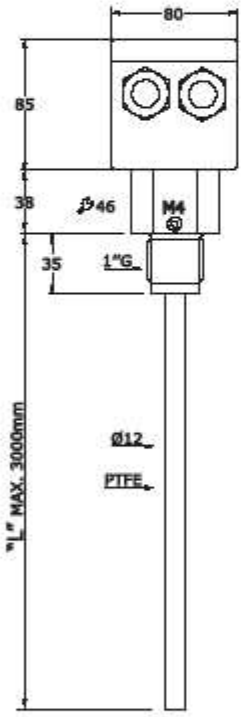
SIMULATE OUTPUT
Back -> ESC
+ and - : 04 mA -> OK

TECHNICAL DATA

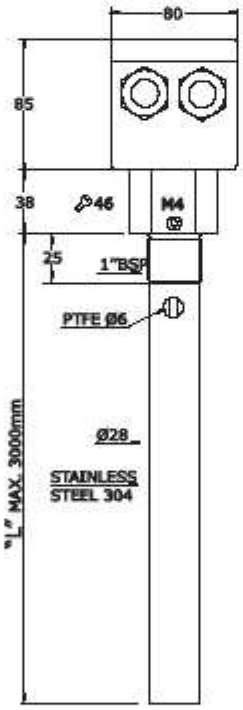
- Power supply : 10 to 35 Vdc
- Output 4 to 20 mA (2 lead wire connection)
- Measure order until 1000 pF
- Display LCD
- Stainless steel thread 1"BSP (2" BSP in MICROCAP.DS)
- Polycarbonate housing IP 65
- Environment Temperature: -10 a 60 ºC
- Process Temp. : max. 90ºC(125ºC in model TE)
- Cable Glands: 2 x M20
- Protection to polarity changes in Vdc
- Probe in PTFE for models N, TE and DS. Concentrical stainless steel model T.

MICROCAP MODULE

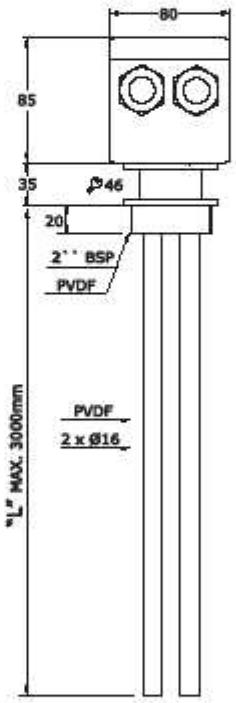
The MICROCAP connecting module, contains the electronic circuit controled by microprocessor, the LCD screen, the connection terminals and the programming keys.Following the screen instructions, is very easy to adjust the lead.
With the option SIMULAR SALIDA, you can generate in the supply loop a current 4 to 20 mA to make the tests you need.



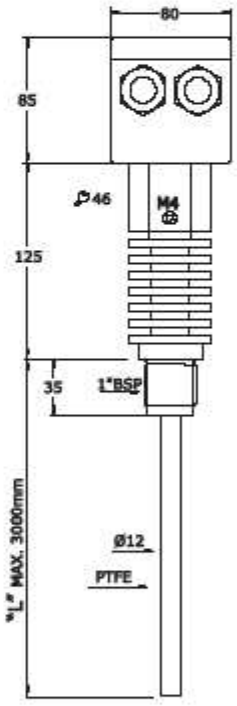
"N"



"T"



"DS"



"TE"

Distribuidor:

CT 0025