# SMERI

"N"   "T"   "TE"   "DS"

- 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

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DESCRIPTION

MICROCAP level transmitters are based in the electrical capacity that produces between 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.
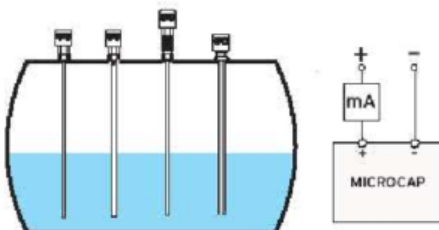
The MICROCAP capacitive level transmitter range, is formed by four basical models:

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 aggressive 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