

CAPACITIVE LEVEL METER CLM-40

For continuous level measurement of diesel fuel, oils and other petroleum products in trucks, building machines, locomotive engines etc.

- Direct mounting into tank through the flange or by means Thread G1"
- Arbitrary electrode length (max. 1 m)
- Material of housing and rod electrode from stainless steel
- Simple sensitivity setting by means of magnetic pen
- Possibility of shortening the measuring electrode



Technical specification

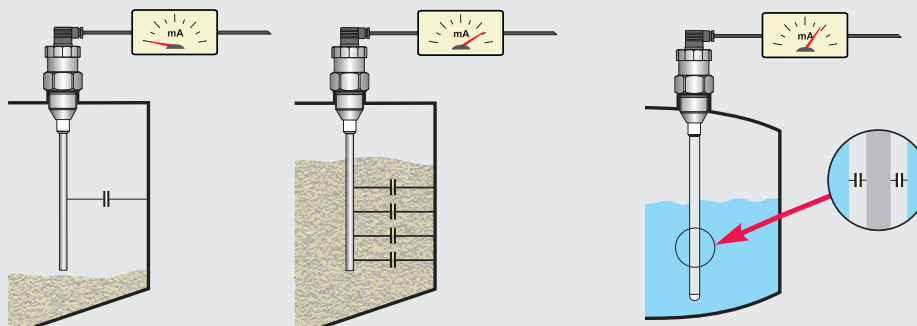
Supply voltage	- current output (var. „I“)	9 ... 30 V DC
	- voltage output (var. „U“)	12 ... 30 V DC
Output type (var. „I“)		4 ... 20 mA (2-wire)
Output type (var. „U“)		0 ... 10 V (3-wire)
Accuracy (from full measured range)		1%
Ambient temperature range		-40 ... +85°C
Process connection		Flange; Thread G 1"
Protection class		IP68

CLM-40N-40

With uncoated rod electrode and reference tube, level meter with setting by means of magnetic pen, possibility of shortening the measuring electrode. Electrode length from 0,1 m to 1 m.

Capacitive level measurement

The increase of the level causes bigger immersion of the measuring electrode and thereby increases its capacity. According to the measured capacity is set the output of the level meter.



Measurement of electrically non-conductive materials:

The capacitor is made by electrode of the sensor and the wall. The dielectric is done by air or the material.

Measurement of electrically conductive materials:

The capacitor is made by electrode of the sensor and the material (the wall). Dielectric is done by the insulation of the electrode.

The method is resistant to any changes in the atmosphere above the surface (vacuum, pressure, vapours, dust). It is also partially resistant to the formation of foam on the surface. Method is not applicable in case of change of dielectric constant of the medium. If only conductivity of the medium changes (eg. drinking water x steam condensate) and when the sensor is used with insulated electrode, it has no effect on the output signal.