



CAPACITANCE LEVEL TRANSMITTER



Principle

Capacitance level indicator: Utilizes the capacitance formed between the sensing probe and the metallic vessel wall. A high frequency sine-wave is applied between the probe and the vessel wall.

A change of the medium level will induce a change in the current of the applied sine-wave. From $Z = \frac{1}{2\pi fc}$, when the capacitance in the vessel increase, impedance will decrease and current will increase. Vice-versa, when the capacitance in the vessel is small, the impedance will increase and current will decrease accordingly.

Features

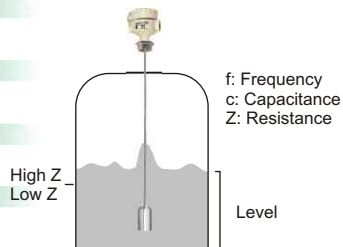
- Suitable for high temperature, high pressure and corrosive environment.
- Not affected by noisy, dusty, misty and changes in the temperature.
- No blind distance, ideal for different tanks.
- Economical for large tanks.
- 4-20mA output compatible for most control systems and meters.

Define Perfect Measurement

DPM Quality Instrumentation

CAPACITANCE TYPE TRANSMITTER / INDICATOR / CONTROLLER

TRANSMITTER SPECIFICATION



Head	: Aluminium Die casting certified by CMRS Dhanbad as per IS 2148 of group II A & group II B.
Output	: 4 to 20 mA & 0 to 3 volts
Transmitter type	: 3 wire
Input power	: 12 to 24 volts DC
Length	: Variable
Pressure rating	: 0 to 6 kg cm ²
Temperature rating	: -20 to 110 ^o C

CONTROLLER / INDICATORS SPECIFICATION



Model - LEV-2004

Display	: 2x4 Digits (9999) 7 Segment Led Display
Keypad	: Membrane
Calibration	: By Software.
Range	: Programmable
Input Type	: 4 to 20mA, 0 to 10 volts DC
Decimal Point	: Programmable
Accuracy	: ±0.1%
Control O/P	: Relay 1/2/3/4 (5Amp. Rating)
Control Action	: On/Off
Control Mode	: High/Low
Enclosure	: 96x96x110 or Flameproof (Optional)
Supply Voltage	: 110/230 Volt AC, 50 Hz

FLOAT TYPE / CONDUCTIVE TYPE LEVEL SENSOR & CONTROLLER

LEVEL SENSOR SPECIFICATION



HEAD	: Aluminium Die casting weatherproof or Flameproof certified by CMRS Dhanbad as per IS 2148 of group II A & group II B.
Length	: Variable
Process connection	: Flanged / Screwed
Sheath material	: SS 316
Float sizes	: Variable (35 NB, 50 NB, 100 NB)
Sensing Point	: 1 / 2 / 3 / 4
Sensing Element	: Reed switch
Pressure rating	: 0 to 6 kg cm ²
Temperature rating	: -20 to 110 ^o C

LEVEL CONTROLLER / INDICATORS SPECIFICATION



Model - LEV / DIN 2000



Model - LEV-2000

Indication	: 5 mm LED
Input Type	: Reed switch / Conductive probe / Proximity switches
Control Output	: Relay 1/2/3/4 (5Amp. Rating)
Control Action	: On/Off
Control Mode	: Relay for each level
Enclosure	: 96x96x110, Din rail
Supply Voltage	: 110/230 Volt AC, 50 Hz



DPM INSTRUMENTS PVT. LTD.

MFG. OF PROCESS INSTRUMENTS / CONTROL PANEL

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