

MCOMHT-33

HYDROSTATIC LEVEL TRANSMITTER

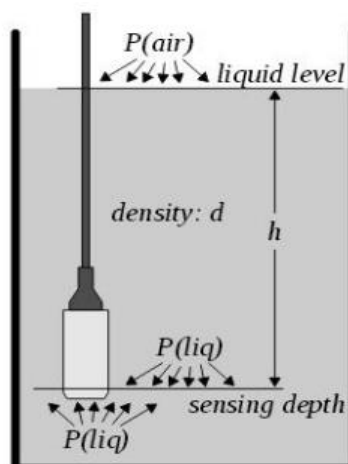


MCOMHT-33 hydrostatic transmitter incorporates the latest technological advancements in piezoresistive sensing & control. The transducer contains a laser trimmed, temperature – compensated, pressure sensing element, providing continuous hydrostatic level measurement in non-pressurized or pressurized liquid environments. It is suitable for all liquids compatible with SS316L stainless steel & is designed for ruggedness & long life in the harshest environments.

➤ WORKING PRINCIPLE

Pressure $P(\text{liq})$ on any surface and container walls at depth h , by the liquid of density d , is:

$$P(\text{liq}) = d \times g \times h + P(\text{air})$$



➤ PARAMETERS

1. Media Compatibility: Liquids or gasses compatible with SS316L stainless steel
2. Overload pressure: the basic range of 2 times
3. Pressure Output: 4~20 mA / RS485
4. Supply voltage: 12-34 VDC/230AC
5. Compensated temperature: 0~+70
6. Working temperature -20~+85
7. Accuracy $\pm 0.05\%$ FS
8. Water level measurement: Measuring Ranges 0...4m, 10m ,20m ,40m, 100m.
9. Pressure resolution: 0.01% FS
10. Long-term stability : $\pm 0.1\%$ /year F
11. Measuring ranges: 0.1 bar to 10 bar
12. Output signal: 4-20 mA/RS485
13. Adjustment: Zero and span internally
14. Overall accuracy: 0.2% of adjusted span, temperature compensated
15. External load(max.): 550 Ohm/24 V to 1400 Ohm/40 V DC
16. Protection grade: IP68 (cable/SS tube) IP66(electr. housing)
17. Process temperature: -10 degree Celsius to +70 degree Celsius
18. Temperature sensitivity: +/- 0,015%/K
19. Wetted parts: 316L SS
20. Material cable: Polyethylene (PE)
21. Measuring sensor: SS 316 with strong diaphragm for long life & long term stability (<0.1%/year)
22. Type of protection Communication unit: IP54
23. Probe: IP68

➤ APPLICATIONS

- MCOMHT-33 is a pressure sensor for hydrostatic level measurement.
- Drinking water, dam water, bore well, well etc.
- Suitable for top mounting.
- Suitable for corrosive liquids.

➤ SETTING

- **To set wire length**
 1. Press SW1
 2. select wire length by pressing SW3
 3. Increase , decrease length by using SW2 and shift digit by using SW1
 4. Press SW3 for save Setting
 5. After success length updated press SW4 for exit
- **To set calibration coefficient**
 1. Press SW1
 2. press SW2
 3. select calibration coefficient by pressing SW3
 4. For shifting press SW2 select pressure in bar
 5. SW3 for save pressure in bar
 6. After success length updated press SW4 for exit
- **Modbus setting**
 1. Baud rate : 9600
 2. Slave id: 03
 3. Parity: none
 4. Word length: 8
 5. Stop bit: 1
 6. Modbus address:
 - a. 40001: Level
 - b. 40002: mA
 - c. 40006: Wire length

MODERN COMMUNICATION TECHNOLOGY

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