

Your vision, automated



MCOM300BATP

BATTERY OPERATED DATA LOGGER WITH PRESSURE TRANSMITTER



The MCOM300BATP is a low-power, battery-operated wireless RTU with SMS/GPRS data logging and alarming. Featuring a long-life lithium-ion battery, stainless steel construction, and versatile pressure measurement capabilities, it delivers reliable and autonomous performance for up to 5 years in industrial applications.

➤ CELLULAR INTERFACE

1. Standards: GSM/GPRS/EDGE
2. GPRS: max. 86 kbps (DL & UL), class 10
3. EDGE: max. 236.8 kbps (DL & UL), class 12
4. Frequency: 850/900/1800/1900 MHz for GPRS/EDGE
5. CSD: Up to 14.4 kbps
6. SIM: 1 x (3V & 1.8V)
7. Antenna Interface: SMA Female

➤ SERIAL INTERFACE

- Number of Ports: 1 x DB9 Female
- Serial Standards: RS232 /RS485
- ESD Protection: $\pm 15\text{KV}$
- Baud rate: 8N1, 1200bps to 115200bps
- RS-232: TxD, RxD, GND
- RS-485: Data+ (A), Data- (B), GND

➤ FEATURES

- Gauge, Absolute and Vacuum Pressure Measurement
- Measuring Ranges From 0 to 2 bar (other ranges on request)
- Process Temperature from -40 to $+125^{\circ}\text{C}$
- Wide Range of pressure Ports and Electrical Connectors
- Housing and Diaphragm made of Premium Stainless Steel
- Customized OEM Version Available

➤ SYSTEM

- **Data logger**

1. LED Indicators: PWR, GSM.
2. Real Time Clock: Built-in RTC with button battery
3. Watchdog and Timer: Built-in watchdog and timer

- **Power Supply and Consumption**

1. Power Supply Interface: 2-pin 5mm pluggable terminal block
2. Power Consumption: Idle: 50-60 mA @ 12 V
3. Data Link: 100 to 200 mA (peak) @ 12 V

- **Physical Characteristics**

1. Housing & Weight: IP65 ABS, 800g
2. Dimension (L x W x H): 181 x 130 x 102 mm or depending on battery capacity
3. Installation: wall mounting

➤ APPLICATIONS

1. Liquid and Gas Pressure Measurement
2. Hydraulic Systems
3. Engine Fuel Pressure Measurement
4. Refrigerator and Air compressor
5. Autoclaves and ETO Sterilizers
6. sewage treatment, water supply, petroleum chemical and pharmaceutical industry

➤ PRESSURE TRANSMITTER

PRESSURE SENSOR MCOM-PT series pressure transmitter incorporates a media isolated silicon pressure sensor with range from 0 bar to 2 bar. For OEM that need consistent high levels of performance, reliability and stability the PT series unit series units offer all 316L stainless steel wetted parts at an unbeatable price performance ratio. A wide choice of output signal types in addition to various electrical connection and pressure port types means the unit is suitable for most applications without modification.

➤ PERFORMANCE

- Accuracy $\leq \pm 0.25\%$ BFSL
- Stability $\leq \pm 0.25\%$ FS
- Insulation Resistance $> 100\text{M}\Omega/500\text{VDC}$
- Over Range Protection 300%F.S.($\leq 70\text{kPa}$) , 200%F.S.($< 10\text{Mpa}$)
- Temperature Drift $< +1.5\%$ FS(-20 to 85°C)
- Response Time $\leq 150\text{ms}$ (up to 90%F.S.)
- Reverse Polarity Protection Yes

➤ TEMPERATURE

Ambient Temperature	-20°C to 85°C
Medium Temperature	-40°C to 100°C
Storage Temperature	-40°C to 110°C

➤ ELECTRICAL

Output	Pin 1	Pin 2	Pin 3	Pin 4
4-20mA (2 Wire)	+V	-V	N/A	N/A