



## MT300 Digital Manometer

# High Accuracy and Long Term Stability

The MT300 is a Digital Manometer that offers high quality and reliable pressure measurements. It offers a range of unique features that benefit a range of applications in pressure inspection and maintenance.



The MT300 is developed for R&D engineers working on pressure applications found in market sectors such as: consumer electronics, HVAC, automotive, medical devices, industrial sensors and calibration laboratories that require high precision gauge, absolute and differential pressure measurements.

- Absolute accuracy of pressure measurement to 0.01%
- Accuracy guarantee period: 12 months
- Battery Powered – Optional
- Higher Resolution mode – Optional
- Connectivity Interfaces GP-IB / USB / Ethernet

### High accuracy and long-term stability

Yokogawa's proprietary silicon based resonant sensor technology achieves a high measurement accuracy of 0.01% as absolute accuracy. In addition, the sensor is insensitive to temperature changes and features long-term stability and high repeatability. Backed by measurement data accumulated over many years, we guarantee the measurement accuracy for 12 months.

### High Speed Measurement (/F1 Option )

Rapid pressure changes and transient responses requires high speed and reliable measurements. Depending on the application, you can choose your measurement update speed mode ranging from normal, medium or high.

### Statistical Processing

You can apply statistical processing analysis to the acquired data by detecting the maximum value, minimum value, average value and standard deviation.

### Synchronous measurement

Using the synchronization features, you can collect data and display measurements from multiple units. Measurements can be captured and correlated at high speed with high accuracy and trusted confidence.



Gauge Pressure  
MT300-G\*\*



Absolute Pressure  
MT300-A\*\*

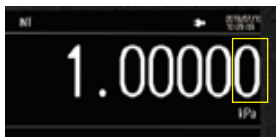


Differential Pressure  
MT300-D\*\*

## High Resolution Display

### (/R1 Option)

By using a high resolution display, pressure measurements can be more accurately displayed and visualized. In addition, the increased resolution, especially in calibration environments, reduces the uncertainty of the entire calibration process.



→ Display resolution increases by one digit

### D/A output (/DA option)

The Digital-to-Analog (D/A) option, makes it easy to output measured pressure values via the external terminal to, for instance, a ScopeCorder. Using the I/O terminals output control signals, based on set upper and lower limits and judgement criteria's on measured values. These features allow automation of production and/or inspection lines for pressure-related products.

## Leak Test

The Leak-test feature can be used to measure and monitor pressure change or leak rate within a specified measurement period in order to verify the sealing integrity of a pressure measurement system.

## Field device calibration and maintenance

The MT300 offers several unique features for calibration & maintenance on transmitters in the field:

### Measurement & Output (/DM option)

- Outputting 24 VDC for the supply of transmitter.
- Measuring transmitter output (1 to 5 V or 4 to 20 mA selective).
- Built-in communication resistance enables ON/OFF switching.

### External Battery (/EB option)

- Li-ion battery operation.
- Running time: Approx. 6 hours with all functions turned on.
- Charge time: Approx. 6 hours.

## Why choose the MT300?

**Technology** – Proprietary, silicon based resonant sensor technology, delivers high measurement accuracy of 0.01% and long term stability of accuracy up to 12 months.

**Operability** – With high speed, high resolution, and synchronous measurements, the MT300 meets the needs of a wide range of industries, other than just pressure measurements.

**Confidence** – Yokogawa's high standards of quality and performance, gives engineers a high level of confidence in their measurements.

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