

# Barometric Pressure Sensor

## Features

- Pressure range: 800 to 1100 mBar absolute
- Temperature compensation: 0 to 70°C
- Output: 0 to 5 VDC
- Supply voltage: 7.5 to 24 VDC (12 VDC typ)
- Short circuit & reverse voltage protected
- Optimised for atmospheric pressure



The WS-MM-DP-925 barometer combines compensated and calibrated silicon pressure sensors with precision signal conditioning circuitry.

The on board voltage-reference and reverse voltage protection offers independence from the voltage supply. Only unregulated DC-supply in the range from 7.5 to 24 VDC is required.

The WS-MM-DP-925 is for use with non-corrosive, non ionic pressure media like air. The range of 800-1100mb absolute makes this cost effective semiconductor pressure sensor usable for barometric measurements, altitude corrections and other applications where only a reduced range is necessary. The semiconductor pressure sensor (XCC-BARO) is special calibrated for use in the atmospheric pressure range.

The sensor is packaged in a IP65 wall mount enclosure (pictured with lid removed) or a DIN rail mount enclosure.

## Specifications:

### Operating range:

800 to 1100 mBar

### Accuracy:

±0.83 mBar

### Compensated temperature range:

0°C to 70°C

### Operating temperature range:

-20°C to +80°C

### Power Requirements:

7.5 to 24 VDC (unregulated) at 70 mA (nominal)

### Output signal:

0 to 5 VDC

### Sensitivity:

16.7 mV/mBar

### Response Time (10% ... 90%):

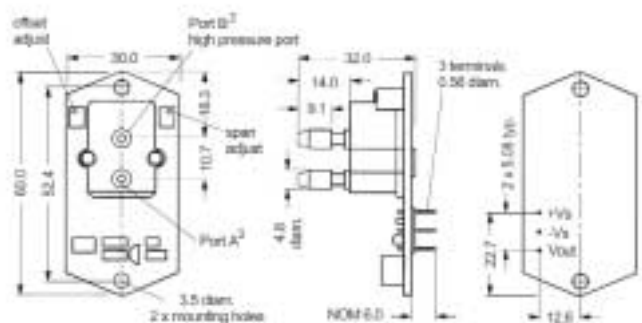
1 ms

### Environmental Protection:

Wall mount: Sealed to IP65  
DIN rail mount: Sealed to IP20

### Materials:

Ceramic base AL<sub>2</sub>O<sub>3</sub>, glass filled nylon cap



## ORDERING INFORMATION:

| Model          | Description   |
|----------------|---|
| WS-MM-DP-925   | Barometric pressure sensor                          |
| WS-MM-DP-925-W | Barometric pressure sensor with wallmount enclosure |
| WS-MM-DP-925-D | Barometric pressure sensor with DIN rail enclosure  |