



**AIRSENSE**  
FINLAND OY

## MM Differential Pressure Inclined Tube Manometers

### Datasheet

Subject to technical alteration  
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#### Description

Differential pressure inclined tube manometers for monitoring differential pressure of air and other non-flammable and non-aggressive gases. Possible applications: Monitoring of air filters and fans, monitoring of industrial air cycles and duct airflow.

#### Application

Differential pressure inclined tube manometers for monitoring differential pressure of air and other non-flammable and non-aggressive gases. Possible applications: Monitoring of air filters and fans, monitoring of industrial air cycles and duct airflow.



Type	Measuring range	Accuracy	Gauge fluid
MM50	-50..+50 Pa	±1 Pa	red
MM100	-20..+100 Pa	±1 Pa	red
MM500	-100..+500 Pa	±5 Pa / 25 Pa	red
MM600	0..+600 Pa	±5 Pa / 25 Pa	red

#### Technical Data

Measuring values		differential pressure
Medium		air, non-aggressive gases, non-flammable gases
Working range temp.		-40..+60 °C
Measuring range pressure	MM50	-50..+50 Pa
	MM100	-20..+100 Pa
	MM500	-100..+500 Pa
	MM600	0..+600 Pa
Accuracy pressure	MM50   100	±1 Pa
	MM500	±5 Pa (-100..0 Pa)   ±25 Pa (0..+500 Pa)
	MM600	±5 Pa (0..+200 Pa)   ±25 Pa (+200..+600 Pa)
Max. working overpressure		200 kPa
Enclosure		ABS, cover PMMA
Protection		IP54 according to EN 60529
Connection mechanical		connection tube PVC, soft
Delivery contents		2 mounting screw, 2 plastic duct flanges, 2 m PVC connection tube soft, Ø=4/7 mm, 30 ml gauge fluid, 2 indication stickers (red/green)

#### Mounting Advices

The device must be mounted balanced with the self-drilling screws herewith enclosed.

Turn back the zero button to the stop position. Then turn one rotation clockwise, so that the adjustment can be conducted in both directions. Screw-off the filling button and fill with gauge fluid until the fluid is visible close to the zero-point on the scale. Make an exact adjustment with the zero button and screw-on the filling button.

Establish a connection between the connector (-) of the measuring device with the flow-off side of the filter as well as the connector (+) of the measuring device with the flow-on side of the filter. To mark the start (green) and endpressure (red), bond the green and red adhesive label side by side upon the scale. Please pay attention to the recommendation of the equipment manufacturer regarding the recommended pressure loss values.

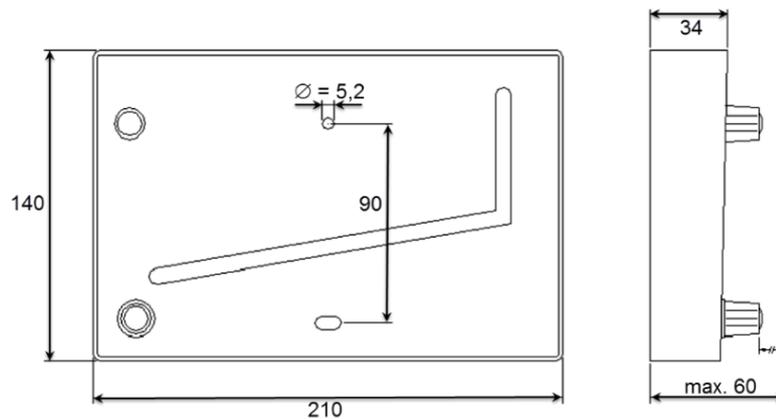
Check the oil level at regular intervals and readjust the zero button if necessary. Before the readjustment, please make sure that the device is unpressurized. Therefore the tube must be at first pulled off on the upside of the device. Fill up with oil if necessary.

### Commissioning

A prerequisite for the operation is a proper installation of all electrical supply control and sensing leads as well as the pressurized connection line.

Before installing the device, the leak tightness of the pressurized connection lines has to be inspected.

### Dimensions (mm)



### Security Advice – Caution



The installation and assembly of the device should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual