

# MA-Di<sub>2</sub>

Article-No. 42118-4211-XXX



## YOUR ADVANTAGES

- + Easy detection of compressed air consumption before consumer load
- + Quick sensor exchange, causing only brief disconnection thanks to the safety measuring armature
- + Manual leakage stop, possible through application of the shut-off function in the measurement system (e.g. for shutdown or maintenance work) - automatic actuator available as an option
- + Red-green alternation display for clear marking of good areas
- + Multi sensor operation possible (multiple measuring point interfaces can be operated with a portable sensor unit)

## PRODUCT FINDER

### Your industrial sector?

General industrial applications.

### What is to be measured?

Consumption volume flow with quick-break sensor exchange.

## MEASURING POINT INTERFACE

### Measuring armature

**Material:** brass

**Nominal pressure:** -1 to 16 bar

**Pipe connection:**

ISO- female thread

X

## SENSOR UNIT WITHOUT APPLICATOR

### Direct-i<sub>2</sub> with 1,44" colour display

**Sensor:** i-flow

measuring range

0,3 to 100 m/s

temperature -10 to 60°C

**Material sensor probe:** plastic

X

## MEDIUM

Compressed air	Nitrogen	CO <sub>2</sub>	Oxygen	Helium	Argon
X					

## NOMINAL WIDTH

DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	> DN 200
X	X	X	X	X	X							



## TECHNICAL DATA

### Measuring point interface

Brass safety measuring armature with PB + CO®Lock blind plug

### Sensor without applicator

Sensor i<sub>z</sub> volume flow, pressure and temperature sensor with integrated 1.44 "colour display

Factory calibration and calibration certificate (5-point), ISO 50001 compliant

Measuring range: 0.5 to 160 m / s, volume flow depending on the nominal width (see nominal width data sheet)

Measuring range pressure: -1 to 16 bar, resolution: 0.05 bar, accuracy: 0.032 bar

Measuring range temperature: -10 ... 60 ° C, resolution: 0.2 ° C, accuracy: ± 0.5 K.

Pressure resistance: 16 bar

1.44 "colour display 128 x 128 pixels, 2x LED; yellow

Display: m<sup>3</sup> / h, l / min, ft<sup>3</sup> / h, ft<sup>3</sup> / min, m / s, ft / s (volume flow); ° C, ° F (temperature); kPa, bar, psi (pressure)

Totalizer (l or m<sup>3</sup>)

Response time t<sub>90</sub>: 0.1 sec.

Switch-on delay: 1 sec.

Supply voltage: DC 24 V (18 - 30 V), current consumption: <80 mA (with display)

Bus-Schnittstelle: IO-Link (im Sensor), M-Bus (optional), Modbus RTU (optional), Profibus, (TCP / IP) as an external bus module

2x measuring output (analog): 4 - 20 mA, linear for instantaneous display over the entire measuring range

Temperature range: ambient temperature 0 to 60 ° C; Medium temperature -10 to 60 ° C; Storage temperature -20 to 85 ° C

Humidity of the gas: non-condensing

Short circuit protection and reverse polarity protected

### Material

Nickel-plated brass (measuring armature), ceramic glass passivated, Makrolon, PEEK, polyester, Viton (sensor)

Protection class: IP65, IP67

## CALIBRATION SERVICE FOR YOUR SENSOR

Safeguard the measuring quality and, with this, the implementation of **ISO 9001** and **ISO 50001** through an annual recalibration – as a one-time service or as a cost-efficient subscription and with a free-of-charge immersion sensor, delivered free customer's address – to minimize the downtime.

**Feel free to contact us for further information.**