2024-03-04

G652AVBP4JA000N

Series AF2

The pressure dew point must be at least 15 °C below the ambient and medium temperatures and must not exceed 3 °C. The protection class is only ensured when the plug is mounted properly. See the operating instructions for further information. If not separated sufficiently, drifting may result. Precision: Standard measurement range: ±4 % of measured value, + 0.5 % of final value. Extended measurement range: ±8 % of measured value, + 1 % of final value.





Technical data

Industry Industrial

Note Output signal: 1 analog output 4 mA ... 20 mA

+ 1 digital/analog output (PNP, NPN, push-pull, 4 mA ... 20 mA/switchable) + 1 digital output (PNP, NPN, push-pull, switchable), IO-Link V1.1

(COM3/230K4 baud) Without mounting

Frame size 652

Switching principle Flow measuring principle: calorimetric

Protocol IO-Link

Analog

Nominal flow 1630 I/min

Nominal flow Qn min., standard 8 I/min Nominal flow Qn max., standard 1630 I/min Nominal flow Qn min., extended 1630 I/min 2445 I/min Nominal flow Qn max., extended G 1/2 Compressed air connection

Certificates CE declaration of conformity

UL (Underwriters Laboratories)

Min. working pressure 0 bar Max. working pressure 16 bar Min. ambient temperature -20 °C 50 °C Max. ambient temperature -20 °C Min. medium temperature

Series AF2 flow rate sensor, IO-Link

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Max. medium temperature 50 °C

Medium Compressed air

Argon Nitrogen

Carbon dioxide

Filter porosity 5 µm
Display OLED
Flow display unit I/sec I/min

m³/min m³/h ft³/s m³/min

Pressure display unit bar

psi

Temperature display unit °C °F

Electrical connection 2, type Plug
Electrical connection 2, thread size M12x1
Electrical connection 2, number of poles 5-pin
Electrical connection 2, coding A-coded

Output signal PNP, NPN, push-pull, 1x IO-Link Output signal digital PNP/NPN/push-pull, switchable

Output signal analog 4 ... 20 mA

Max. power consumption 12 W

Operational voltage 17-30 V DC
Min. operating voltage DC 17 V DC
Max. operating voltage DC 30 V DC
Response time < 0.3 s

Short circuit resistance short circuit resistant

Max. shock resistance 30 g, 11 ms

Vibration resistance 1 g (10 - 2000 Hz) IEC 60068 - 2-6 Reproducibility ± 1.5% of the measured value

Protection class IP65

IP67 according to IEC 60529

Weight 0.73 kg

Material

Housing material Polyamide

Polycarbonate Aluminum

Seal material filter

Seal material sensor

Part No.

Nitrile butadiene rubber

Fluorocarbon caoutchouc

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Technical information

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The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

The device is designed to be installed in AS series air preparation units or to be fitted as a standalone device using a W05 block assembly kit.

Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.

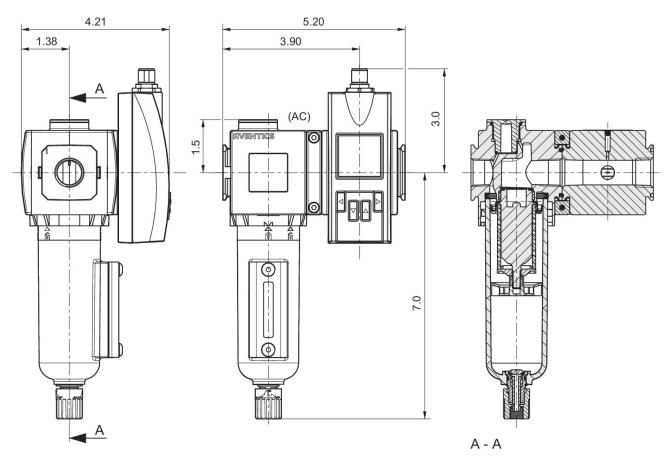
5 microns - $\pm 4\%$ of measured value + 0.5% of standard full scale $\pm 8\%$ of measured value + 1% of extended full scale

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

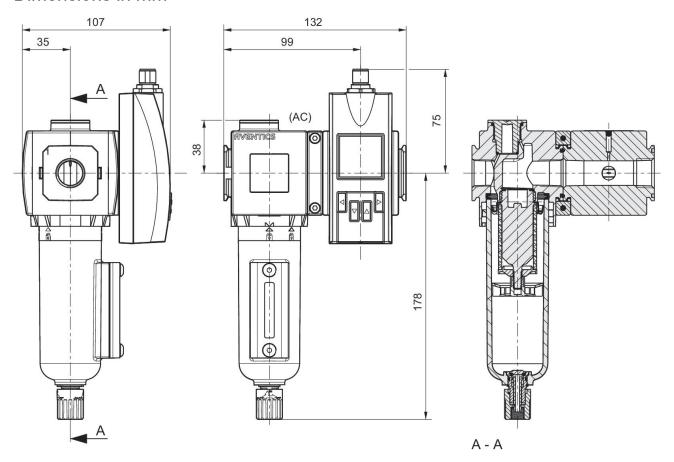
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions in inches



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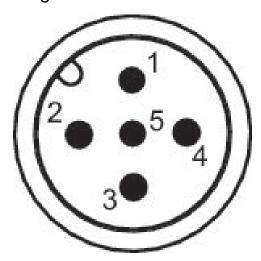
Dimensions in mm



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Pin assignments

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Pin assignments

Pin	Allocation	Wire color
1	L+ Supply Voltage	brown
2	QA (output 4 20 mA)	white
3	m = mass	blue
4	C/Q1 (IO-Link/switch output)	black
5	Analog output 4 20 mA	yellow