CE

GM-FLOW02-xx

MICROPROCESSOR MODULE
for MEASUREMENT and VISUALIZATION

air flow rate, air speed in piping, differential pressure, and fluid temperature if the meter is equipped with temperature probe *GMSTN415D-EX* or *GMSTN425D-EX*, **consisting of the microprocessor module and pitot tube with the length indicated by the final number in the code** *[measurement in inches]* **and fixing flange.**

Air flow data shown at the centre of the display.

Alternating display of air speed (greater than 2 m/s) and differential pressure data.

Visualization of detected temperature data [if the temperature probe is present] or the value set by the user [default 25°C].

Display: backlit, 128 x 64 pixels.
Inputs: • analog 4–20mA
• pressure
Output: • analog 4–20mA
• analog 0–10V
• RS485 serial line.
• digital on two relays, fully customized using internal software.

Output 24Vdc – 200mA to power external devices.
Power 1: from 85 to 264Vac [from 47 to 440 Hz]
or from 127 to 370Vdc.
Power 2: 24Vdc ± 10%
Both power supplies are included standard.

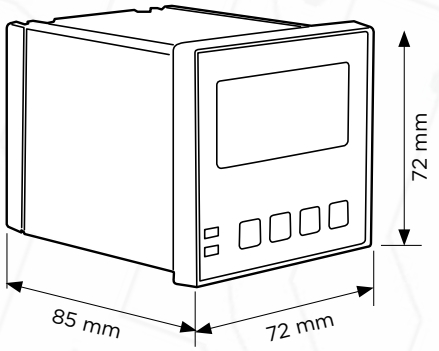
Working temperature: –20°C – +60°C
Protection: IP54

For correct installation, the pitot tube must be situated at the centre of the pipe where it is installed. The table also shows the length of the pitot tube.

The container should be attached at a maximum of 8 linear metres from the pitot tube.

CODE	LENGTH mm PITOT TUBE
GM-FLOW02-12	304.80
GM-FLOW02-18	457.20
GM-FLOW02-24	609.60
GM-FLOW02-36	914.40
GM-FLOW02-48	1219.20
GM-FLOW02-60	1524.00

DIMENSIONS:



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ELECTRONIC DEVICES
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MADE IN ITALY

Industrial Measurements: FLOW METERS WITH PITOT TUBE

STANDARD VERSION

TECHNICAL SPECIFICATIONS

Technology.
Microprocessor electronics with flash memory.
Input power:
Power 1
May be applied regardless of the voltage from 85 to 264 VAC and frequency from 47 to 440 Hz, or any continuous voltage from 120 to 370 VDC.
Power 2
Power 24 VDC ± 10%
Protection against:
overheating, overloads, voltage surges and short circuits with automatic recovery.
Absorbed power.
< 6 W
Analogue current input
(Activated using software).
4–20 mA active. Temperature compensation with **GMSTN415D** or **GMSTN425D**
4–20 mA passive (e.g. two-wire transmitter)
Pressure input
(Activated using software).
Absolute and differential pressure with on-board sensor (0–100 mmH_2O standard).
Air speed in the tube
Greater than 2 m/s
Analogue current output
(Activated using software).
4–20mA active (current generator).
4–20 mA passive (current load).
Analogue voltage output
(Activated using software).
0-10V
Resistance of current inputs 4–20 mA
< 50 Ω
Resistance of voltage inputs 0–10 V
>5000 Ω
Resistance load on 4–20 mA outputs
< 750 Ω
Resistance load on 0–10 V output.
> 10000 Ω
Input/output protection.
All analogue/digital inputs and outputs are protected with resettable fuses, Zener diodes and varistors.

Type of digital output.
Two-wire RS485 protected with resettable fuses.
Output to power external devices.
24 VDC ± 5% maximum current for external uses = 200 mA.
Number of thresholds.
2
Threshold output.
Two relays with 250 VAC/30 VDC 5 A contacts.
Threshold type.
Entirely software programmable.
Visualization
Graphical display 128 x 64 pixels with LED backlit.
Two green LEDs for the relay threshold status
Precision.
± 0.1% F.S.
Working temperature/humidity.
Temperature from –20°C to +60°C.
Humidity from 0% to 90%, non-condensing.
Input buttons.
Four buttons for entering data.
Electrical connection:
- **One removable 6-pole terminal**, 5.08 mm step (2 relay outputs with switch contacts).
- **One removable 2-pole terminal**, 7.62 mm step (Only Power 1)
- **One removable 9-pole terminal**, 5.08 mm step (Power 2, digital inputs, outputs, analog outputs, RS485).

Pneumatic connection
Two hose connectors for Ø 4 mm hoses.
Protection rating
IP54 front
Container
Recessed container 72 mm x 72 mm
Hole dimensions 68 mm x 68 mm. DIN 43700.
Container material
Self-extinguishing UL 94 VO.
Certifications
CE

ACCESSORIES:

GM-CT2-PG
Polycarbonate container for microprocessor module GM-FLOW02-xx

GMSTN415D-EX
GMSTN425D-EX
Temperature transducer

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The Technical and Commercial offices are at full disposal for any inquiry.