Industrial Measurements: FLOW METERS WITH PITOT TUBE
SELF-CLEANING – UE VERSION

CE

GM-FLOW02-AP-UE-xx

MICROPROCESSOR MODULE
for MEASUREMENT, VISUALIZATION, and RECORDING
[using dedicated outputs for recording data on our proprietary software] air flow rates, air speed in piping, differential pressure, and fluid temperature if the meter is equipped with temperature probe *GMSTN415D-EX* or *GMST-N425D-EX*, **consisting of the microprocessor module and pitot tube with the length indicated by the final number in the code** *[measurement in inches]*, **fixing flange and the pneumatic components necessary for the pitot tube to self-clean** *[internal wiring provided by our laboratory]*, **managed by specific software to customize the process timer.**

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.

Output 24Vdc – 200mA to power external devices.
Output with MINI-USB on the front of the instrument
[software to download data]
Output with RJ45 Ethernet socket on the side of the instrument
[data-recording software optional]

2-MB memory in the instrument for data recording with date and time
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.

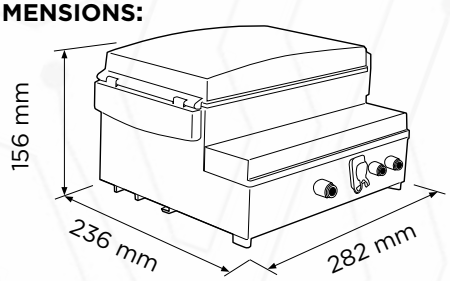
Operating temperature: –20°C – +60°C
Protection: IP54

For correct installation, the pitot tube must be situated at the centre of the pipe where it is installed.

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

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

DIMENSIONS:



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ELECTRONIC DEVICES
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Phone +39 045 6900919 - Email: gmsistemi@gmsistemi.it
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MADE IN ITALY

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

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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).
4–2mA 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.
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 for self-cleaning).
- **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).

Interfaces
1 USB + 1 Ethernet
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:

GMSTN415D-EX
GMSTN425D-EX
Temperature transducer

GM-SW4-002-x
SOFTWARE to manage and record data measured and transmitted using microprocessor module code GM-FLOW02-UE-xx

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