



## GM-FLOW02-AP-XX

### MICROPROCESSOR MODULE for MEASUREMENT and VISUALIZATION

of air flow rates, air speed in piping, differential pressure, and fluid temperature if the meter is equipped with temperature probe GMST-N415D-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], 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.**

**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

Dimensions 72 x 72 DIN43700 depth 85 mm

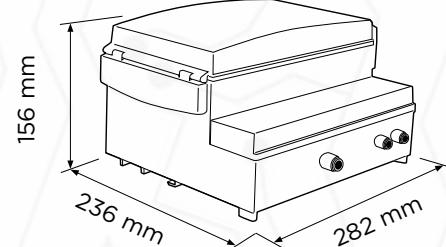
For correct installation, the pitot tube must be situated at the centre of the pipe where it is installed. The table also shows the length of the pitot tube.

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

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



#### DIMENSIONS:



## 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  $\pm$  10%**Protection against:**

overheating, overloads, voltage surges and short circuits with automatic recovery.

**Absorbed power.**

&lt; 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<sub>2</sub>O 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  $\Omega$ **Resistance of voltage inputs 0-10 V**>5000  $\Omega$ **Resistance load on 4-20 mA outputs**< 750  $\Omega$ **Resistance load on 0-10 V output.**> 10000  $\Omega$ **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  $\pm$  5% maximum current for external uses = 200 mA.**Visualization**

Graphical display 128 x 64 pixels with LED backlighting.

Two green LEDs for the relay threshold status

**Precision.** $\pm$  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).

**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