Industrial Measurements: MICROPROCESSOR MODULES FOR MEASURING THE DIFFERENTIAL PRESSURE WITH DISPLAY

CE

GM-PID001-Dxx

MICROPROCESSOR MODULE
for MEASURING the differential pressure WITH DISPLAY to monitor mechanical filter blockages

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

Output 24VDC 100mA to power external devices

Power: **standard** from 85 to 264VAC [from 47 to 440 Hz] and from 127 to 370VDC.
or specify 24VDC when ordering

Working temperature: -20°C – +60°C
Front protection: IP54

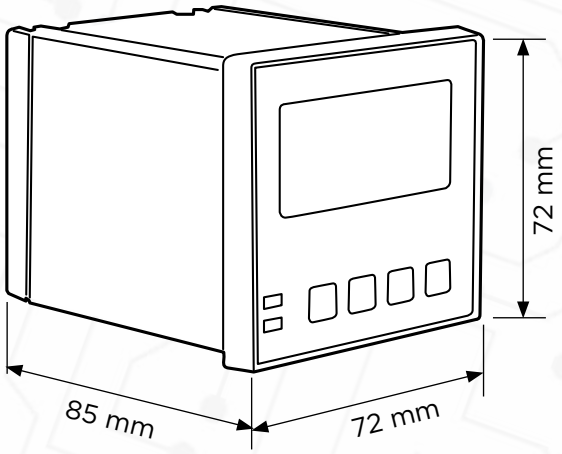
Back

MEASUREMENT RANGE:

GM-PID001-D	**0/350 mm H_2O**
GM-PID001-D6K	**0/600 mm H_2O**
GM-PID001-D10K	**0/1000 mm H_2O**
GM-PID001-D20K	**0/2000 mm H_2O**
GM-PID001-D50K	**0/5000 mm H_2O**
GM-PID001-D2K	**0/200 mm H_2O**
GM-PID001-D2K2	**-200/+200 mm H_2O**
GM-PID001-DH250K2	**-25/+25 mm H_2O**
GM-PID001-DH100K	**0/10 mm H_2O**
GM-PID001-DH100K2	**-10/+10 mm H_2O**

Specify the desired power supply when ordering

DIMENSIONS:



GM SISTEMI ELECTRONIC DEVICES
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Phone +39 045 6900919 - Email: gmsistemi@gmsistemi.it
www.gmsistemi.it
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 264Vac and frequency from 47 to 440Hz, or any continuous voltage from 127 to 370Vdc.
Power 2
Power 24Vdc ± 10%

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

Absorbed power.
< 6 W

Pressure input *(optional)*
(Activated using software).

GM-PID001-D	0/350 mm H_2O
GM-PID001-D6K	0/600 mm H_2O
GM-PID001-D10K	0/1000 mm H_2O
GM-PID001-D20K	0/2000 mm H_2O
GM-PID001-D50K	0/5000 mm H_2O
GM-PID001-D2K	0/200 mm H_2O
GM-PID001-D2K2	-200/+200 mm H_2O
GM-PID001-DH250K2	-25/+25 mm H_2O
GM-PID001-DH100K	0/10 mm H_2O
GM-PID001-DH100K2	-10/+10 mm H_2O

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 4–2mA current inputs
< 50 Ω

Resistance of 0–10V voltage inputs
> 5000 Ω

Resistance load on 4–20mA outputs.
< 750 Ω

Resistance load on 0–10V 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.
24Vdc maximum current for external uses = 100mA.

Number of thresholds.
2

Threshold output.
Two relays with 250Vac/30Vdc 5 A contacts.

Threshold type.
Entirely software programmable.

Visualization
Graphical display 128 x 64 pixels with LED back-lighting.
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).

Hour meter
One available starting with ver. 1.34.
Max. count 65,535 hours (7.5 years) of continuous operation.
Resolution 1 min.
Saved every 5 min.

Pneumatic connection *(optional)*
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:

GMTC2P72
Flange to attach the microprocessor module to the metal container GMCTxxMS

GM-CT2-PG
Polycarbonate container for microprocessor module GM-PID00x-Dxx

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