



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 H₂O

GM-PID001-D6K 0/600 mm H₂O

GM-PID001-D10K 0/1000 mm H₂O

GM-PID001-D20K 0/2000 mm H₂O

GM-PID001-D50K 0/5000 mm H₂O

GM-PID001-D2K 0/200 mm H₂O

GM-PID001-D2K2 -200/+200 mm H₂O

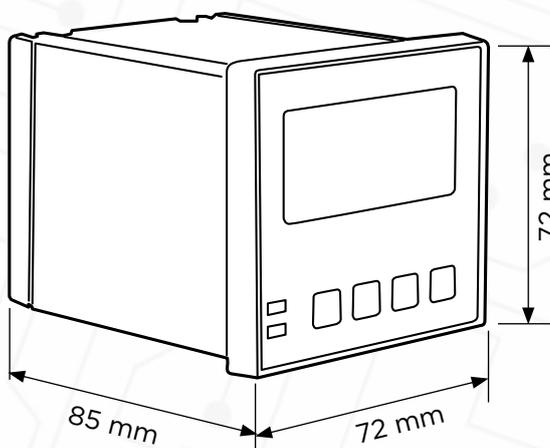
GM-PID001-DH250K2 -25/+25 mm H₂O

GM-PID001-DH100K 0/10 mm H₂O

GM-PID001-DH100K2 -10/+10 mm H₂O

Specify the power when ordering

DIMENSIONS:



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 \pm 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 ₂ O
GM-PID001-D6K	0/600 mm H ₂ O
GM-PID001-D10K	0/1000 mm H ₂ O
GM-PID001-D20K	0/2000 mm H ₂ O
GM-PID001-D50K	0/5000 mm H ₂ O
GM-PID001-D2K	0/200 mm H ₂ O
GM-PID001-D2K2	-200/+200 mm H ₂ O
GM-PID001-DH250K2	-25/+25 mm H ₂ O
GM-PID001-DH100K	0/10 mm H ₂ O
GM-PID001-DH100K2	-10/+10 mm H ₂ O

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.

\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).
- **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 \varnothing 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 GMCTxxx



GM-CT2-PG

Polycarbonate container for microprocessor module GM-PID00x-Dxx