

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



### GM-PID002-D1-K2

**MICROPROCESSOR MODULE**  
for **MEASURING** the differential pressure  
**WITH DISPLAY** to monitor mechanical  
filter blockages.  
Version for **LOW PRESSURE** and **HIGH PRECISION**

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 200mA to power external devices**

**Power 1:** from 85 to 264 VAC [from 47 to 440Hz]  
or from 127 to 370Vdc.

**Power 2:** 24Vdc  $\pm$  10%

**Both power supplies are included standard.**

Working temperature: -20°C - +60°C

**Front protection: IP54**



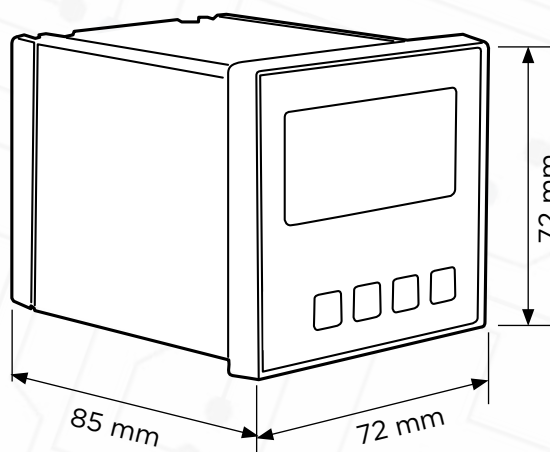
Back

#### MEASUREMENT RANGE:

**GM-PID002-D1-K2**

**-100/+100mm H<sub>2</sub>O**

#### DIMENSIONS:



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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  $\pm$  10%

### Protection against:

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

### Absorbed power.

< 6 W

### Pressure input

GM-PID002-D1-K2 -100/+100 mm H<sub>2</sub>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 4-20mA current inputs

< 50  $\Omega$

### Resistance of 0-10V voltage inputs

> 5000  $\Omega$

### Resistance load on 4-20mA outputs.

< 750  $\Omega$

### Resistance load on 0-10V 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.

24Vdc maximum current for uses = 200mA.

### Number of thresholds.

2

### Threshold output.

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

### Threshold type.

Entirely software programmable.

### Visualization

Display 128 x 64 pixels with LED backlighting.

Two green LEDs for the relay threshold status

### Precision.

$\pm$  0.01% 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  $\varnothing$  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 GMCTxxMS



### GM-CT2-PG

Polycarbonate container for microprocessor module (GM-PID002-D1-K2) equipped with hose connectors