



GM810

Pressure Transmitter

The series **GM810** joins a range of pressure transmitters designed and manufactured by GOMETRICS to cover precision applications in process instrumentation for the machine design engineering industry.

The transmitter consists of a piezo-resistive pressure transducer built into a cylindrical block of stainless steel which also contains a converter board that produces an electronic signal whose output is proportional to the pressure input signal.

The unit works with any type of fluid compatible with stainless steel 316 as the material in contact.

The unit has successfully passed exhaustive laboratory tests for waterproofness and vibration guaranteeing IP65 protection and a resistance to vibration of up to 3G, which makes it versatile and ideal for dynamic applications in the machinery industry, with demanding requirements regarding accuracy, reliability and safety.

The series **GM810** has passed strict quality controls and is supplied with a factory calibration certificate with ENAC certification available as an option.

Robust construction, together with accurate and reliable components, make this instrument a unit with expectations of a long maintenance-free life.

Advantages

- Stainless steel 316L
- High response speed
- Adjustable zero and span
- Resistant to vibration
- Compact design
- Robust construction
- Weather protection to IP65
- No maintenance required (recalibration only)
- Long operational life
- Protected transmitter polarity

Features

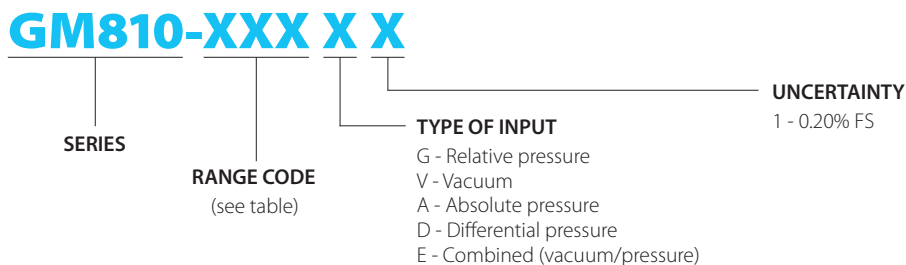
- **Accuracy:** 0.1% FS
- **Calibration:** Permits adjustment of zero and span by means of GM810-USB cable and software for PC
- **Safety:** The polarity of the transmitter is protected so that the electronics cannot be damaged in the event of a connection error
- **Limitation of the output signal:** 25 mA
- **Material in contact:** AISI 316
- **Protection:** IP65

— Technical specifications

- **Pressure interval:** Min: 0 – 25 mbar (see table) Max: 0 – 1000 bar
- **Uncertainty* at 1 year:** 0.20% FS
- **Output signal:** 4 - 20 mA
- **Limit of output signal:** 25 mA
- **Connection to process:** ¼" GAS M
- **Protection:** IP65
- **Resistance to vibration:** 3g
- **Electrical connection:** DIN EN 175 301-803-C connector
- **Material in contact:** AISI 316
- **Operating temperature:** 0 to 70°C Optional: -40 to 125°C
- **Effect of temperature:** 0.02% FS / °C if P < 1 bar
0.01% FS / °C if P >= 1 bar
- **Fluids:** Compatible with stainless steel and Buna N for levels ≥1 bar
Air or inert gases for levels < 1 bar
- **Overpressure:** 2 times range
- **Power supply:** 24 Vdc, operates between 9 Vdc and 30 Vdc
- **Accuracy:** 0.1% FS
- **Dimensions:** Length = 100 mm
Diameter = 22 mm
- **Weight:** 150 grams
- **Calibration:** Adjustment of zero and span by means of GM810-USB cable and software for PC
- **Safety:** The polarity of the transmitter is protected so that the electronics cannot be damaged in the event of a connection error.
- **Guarantee:** 2 años
- CE marking
- Calibration certificate with standard traceability (ENAC optional)

* Includes non-linearity, hysteresis, repeatability, thermal drift between 20 and 26°C established for 1 year.

— Codification (how to determine model)



— Ranges according to type of input

Range code	Relative (G)	Vacuum (V)	Combined (E) ⁽¹⁾	Differential pressure (D) ⁽²⁾	Absolute (A)	Recommended resolution of indicator
025	0 - 25	-25 / 0	-25 / +25	N/D		0,01
070	0 - 70	-70 / 0	-70 / +70	N/D		0,01
300	0 - 300	-300 / 0	-300 / +300	N/D	0 - 300	0,1
101	0 - 1	-1 / 0	-1 / +1	N/D	0 - 1	0,0001
201	0 - 2		-1 / +2	N/D	0 - 2	0,0001
701	0 - 7		-1 / +7	N/D	0 - 7	0,001
172	0 - 17		-1 / +17			0,001
352	0 - 35		-1 / +35			0,01
702	0 - 70					0,01
173	0 - 170					0,01
353	0 - 350					0,1
105	0 - 1000 ^(**)					0,1

(**) Implementation with external sensor. Connection to process 1/4" BSP M

(1) For combined ranges the uncertainty is in % of SPAN

(2) Not available

□ mbar

□ bar