

Model MC2082Y Ex-proof Digital Pressure Gauge



MC2082Y Ex-proof Digital Pressure Gauge is a battery powered intelligent pressure gauge with Ex-proof protection, high precision, tracking speed, simple operation and reliable self-protection function. The product applies intrinsic safety electronic circuit design and Ex-proof housing structure and silicon piezoresistive sensor chip, with powerful anti-jamming capability, fast sampling speed, digital filtering techniques to ensure its high accuracy, low drift, reliable performance, anti-corrosion, anti-vibration, long life, and self-protection function.

It can be applied to liquid, gaseous or vaporous media and suitable for on-site pressure measurement. As an excellent alternative to mechanical pressure gauge with high precision, it also can be used to calibrate general pressure gauge.

Technical Specification

Power: 3.6V battery; or AC220V; or DC24V;

Accuracy: 0.1%; 0.25%

Ex-proof class: Exd II BT4

Protection class: IP65

Compensating temperature range: 0~65°C

Indicating pressure unit: MPa, Pa, Psi, bar, KPa, Tor, Atm, Kgf (kgf/cm²), MMH (mmH₂O), MH2 (mH₂O).

Connection size: M20×1.5; G½"; ½" NPT or customized

Nominal display size: 82mm

Wetted Material: stainless steel 304, 316 (or customized)

Humidity: No more than 85% RH

Stainless steel case

Large-screen LCD display, high resolution, back light, easy to read.

Micro-power consumption, over 2 years in power-saving mode, continuous work 2,000 hours.

Parameter correction, correct zero and error in field application.

Sampling rate: 4 times/sec

Ordering Codes (Model Selections)

MC2082Y-Ex	Ex-proof Digital Pressure Gauge	
-	Pressure range	e.g. 0-10bar or 0-1MPa etc.
-	Wet Part Material	-S4: 304 Stainless Steel -S6: 316 Stainless Steel -S0: specified
-V	Power Supply	None: Battery 1: 24VDC 2: 220VAC
-T	Medium Temperature	1: Normal 2: High Temperature
-A	Installment type	1: thread 2: flange 3: clamp 4: customer specified
-	Size of installment	e.g. for A1, -1/2BSP or -M20*1.5 etc.; for A3, -2" or 3" etc.

MC2082Y-Ex:



Operating instructions

Open/close the pressure gauge: short time press "ON/OFF" button.

Shift engineering unit: long time press "ON/OFF" button.

Clean the peak pressure value: short time press "ZERO" button.

Clear the showing pressure value: long time press "ZERO" button (Note: only available when without any pressure).

Some setting menus:

"lock": password input menu, input password 1000

"off": auto-shut off time menu, available time,00~15minutes,00 means no auto-shut off function.

"bclt": back light time Manuel, available time,00~15minutes,00 means no back light function.

"end-": exit menu, 0 or 1.0 means exiting without keeping the previous setting records, 1 means exiting with keeping the previous setting records.

When setting menus, buttons and their functions:

"ON/OFF" button: short press it to change the currently flashing valves (when the first digit is flashing) or confirm the above the change (when flashing stops).

"ZERO" button: short press it to modify the currently flashing values, long press it shift the digit.

How to set auto-shut off time and back light time:

Press "ZERO" button and "ON / OFF" button at the same time, when "lock" shows in the small screen, input 1000, then press "ON / OFF" button to confirm, then into menu situation.

Short press "ZERO" button to choose the menu.

Short press "ON/OFF" button to change the value.

Short press "ON/OFF" button to confirm the change of the value.

Short press ZERO button to choose "end-" menu, then keep the change.