

## MC2080Y-HP-X High Precision Pressure Gauge and Recorder



MC2080Y-HP is a battery powered high precision pressure gauge and pressure recorder. With an LCD display, it is perfect for applications requiring display pressure readings. Available on-screen data includes: statistics (max., min., average); recording status (start, stop and recording rate), display options (channel, units, text size); calibration information (data calibrated, data for recalibration). Statistics can be cleared at any time during logging. MC2080Y-HP has one of the largest memory capacities of any similar data recorder on the market. The non-volatile memory will retain recorded data, even if battery power is lost. Simply connect the interface cable to an available USB Port and, with a few clicks of the mouse, data is downloaded and ready for review and export to EXCEL. Readings, similar products in the amount of storage is relatively large, power outages data is not lost. With a serial connection, using simple mouse operations, you can export the data to EXCEL.

### APPLICATIONS

Laboratory, Warehouse Museum

HVAC application Medical/Pharmaceutical Environmental monitoring Food standard monitoring Food storage

Fresh and live goods transportation

### FEATURES

Pressure measurement uncertainty: 0.05%FS, 0.1%FS

Advanced temperature compensation

Replaceable batteries

Display: Dual-line 6 full digit LCD with LED Backlight

Pressure Units: Pa, kPa, MPa, psi, bar, mbar, inH<sub>2</sub>O, mmH<sub>2</sub>O, inHg, mmHg

Response Time: 0.1ms

Start/Stop Time: Software programmable start time and date, up to six months in advance.

Memory Capacity: 262143 readings

Reading Rate: 1 reading every 2 seconds to 1 every 24 hours

Compensated Temperature: 32F to 122 F (0 C to 50 C)

\*0.025%FS accuracy guaranteed only over the ambient temperature range of 68 F to 77 F (20 C to 25 C)

Storage Temperature: -4 F to 158 F (-20 C to 70 C)

Humidity: <95%

Media Compatible:

(0 ~0.16) bar: Non-corrosive Gas Compatible

(0.35~ 2500) bar: Liquid, Gas or Steam Compatible with 316 Stainless Steel

Over Pressure Warning: 120%

Battery: 3 AA alkaline batteries or one 3.6V lithium battery

Battery Life: 1 year battery life at 1 minute reading rate with display off

Enclosure case material: Aluminum alloy

Wetted parts: 316L SS

Dimension: 100mm diameter X 37mm depth X132mm height

Weight: 0.45kg

Communication: RS232 (DB9/F, environmentally sealed) Baud Rate: 115200

Software: WINDOWS95/98/ME/NT/2000/XP/VISTA BASED



### Pressure Range Selection

P/N	Pressure Range (bar)	Accuracy ①	Accuracy ②	Media	Burst Pressure
GP 0	-1	0.05,G	--	③	3X
GP 1	0.016	0.05,G	—	③	3X
GP 2	0.035	0.05,G	—	③	3X
GP 3	0.07	0.05,G	0.1,A	③	3X
GP 4	0.1	0.05,G	0.1,A	③	3X

GP 5	0.16	0.05,G	0.05,A	③	3X
GP 6	0.35	0.05,G	0.05,A	④	3X
GP 7	0.7	0.05,G	0.05,A	④	3X
GP 8	10	0.05,G	0.05,A	④	3X
GP 9	16	0.05,G	0.05,A	④	3X
GP 10	35	0.05,G	0.05,A	④	3X
GP 11	70	0.05,G	0.05,A	④	3X
GP 12	100	0.05,SG	0.05,A	④	3X
GP 13	160	0.05,SG	0.05,A	④	3X
GP 14	250	0.05,SG	0.05,A	④	3X
GP 15	400	0.05,SG	0.05,A	④	3X
GP 16	600	0.05,SG	0.05,A	④	3X
GP 17	1000	0.1/0.2,SG	--	④	2X
GP 18	1600	0.1/0.2,SG	--	④	2X
GP 19	2500	0.1/0.2,SG	--	④	1.5X

G=Gauge Pressure; SG=Sealed Gauge Pressure; A=Absolute Pressure;

Temp. Range for Assuring Accuracy: ①、②(0~50) °C;③Non-corrosive Gas Compatible with Glass, Ceramics, Silicon, Nickel, Aluminum, etc.; ④Liquid, Gas or Steam Compatible with 316 Stainless Steel

### Differential Pressure Range Selection

P/N	Pressure Range (mbar)	Type	Accuracy	Accuracy	Media	Burst Pressure
			①	②		
DP 0	0.6	D	1.6	--	③	3X
DP 1	2.5	D	0.5	—	③	3X
DP 2	10	D	0.1	—	③	3X
DP 3	20	D	—	0.05	③	3X
DP 4	50	D	--	0.05	③	3X
DP 5	100	D	--	0.05	③	3X

D=Differential Pressure; Temperature Range for Assuring Accuracy: ① (20±5) °C, ② (0~50) °C;

③Non-corrosive Gas Compatible with Glass, Ceramics, Silicon, Nickel, Aluminum, etc.

**Compound Pressure Range Selection**

P/N	Pressure Range (bar)	Type	Accuracy ①	Media ②
CP 0	±0.0006	D	--	②
CP 1	±0.0025	D	--	②
CP 2	±0.01	D	--	②
CP 3	±0.02	D	0.05	②
CP 4	±0.05	D	0.05	②
CP 5	±0.1	D	0.05	②
CP 6	±0.16	G	0.05	②
CP 7	±0.25	G	0.05	②
CP 8	±0.4	G	0.05	②
CP 9	±0.6	G	0.05	②
CP 10	±1	G	0.05	②
CP 11	-1~1.6	G	0.05	②
CP 12	-1~2.5	G	0.05	②

G=Gauge Pressure; D=Differential Pressure; Temperature Range for Assuring Accuracy: ① (0~50) °C; ② Non-corrosive Gas Compatible with Glass, Ceramics, Silicon, Nickel, Aluminum, etc. All specifications are subject to change for product improvement without notice. Please contact us if have any special requirements.

**Model Selection:**

MC2080Y-HP	High Precision Pressure Gauge and Recorder	
-	Accuracy	02: 0.025% of Pressure Range 05: 0.05% of Pressure Range 10: 0.1% of Pressure Range 20: 0.2% of Pressure Range 40: 0.4% of Pressure Range
-	Pressure range	Please refer to pressure range table
-	Pressure unit	PSI BAR H2O
-	Installment type	N: 1/4NPT X: Customized