

Metrology Made Simple

Additel 680P **Digital Pressure Gauges**

- Stainless steel housing
- Fully welded sensor
- Backlight display
- Intrinsically safe (ADT680PEx)
- IP67 rated













OVERVIEW

Additel's 680P Series Digital Pressure Gauges are designed to be used in panel mount applications. With features such as datalogging and Bluetooth technology included, you will find these gauges to be high in value at a reasonable cost. These durable IP67 rated gauges have been built with outdoor elements in mind and are the perfect fit for field work as well as in the laboratory. If you are working in an intrinsically sensitive area, look to our Ex-versions of this amazing digital pressure gauge to provide that extra level of safety in sensitive areas.

Durable:

The model ADT680P has been built with the finest materials to ensure that is can hold up to elements. Everything from the stainless outer shell to the innermost sensor design have been optimized to ensure that this gauge will keep you informed with on-demand and logged pressure readings for years to come. The IP67 rating ensures that dusty and wet environments won't hamper these gauges ability to perform while the shock and vibration resistance (5g vibration 10g shock) coupled with the corrosion resist wetted parts help to protect the inner workings of these durable.

Easy to use:

Technicians often have tight schedules and heavy workloads; this leaves little extra time for correcting mistakes or doing rework. The ADT680P series products are carefully designed with button functions and menus that are smooth and easy to use which saves on valuable time. The display is clear in bright sunlight, and the backlight can be turned on with a one-button press for use in low light situations. Pressure value can be displayed in large fonts and can be read from a few meters away making this gauge the perfect device for no-nonsense measurement, calibration, and verification work.

Easy to maintain:

The ADT680P is designed with membrane buttons, which can simply be wiped clean for quick and simple cleaning. Coupled with the extra-long battery life of these easy-to-use gauges, you will find that maintenance is minimal and infrequent.

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68







SPECIFICATIONS

Metrology Made Simple

Model	ADT680P	ADT680PEx			
Description	Digital Pressure Gauge	Intrinsically Safe Digital Pressure Gauge			
		CE marked			
Intrinsic Safety		€ EU: II 1G EX ia IIC T4 Ga T4 at -20~50°C			
& European Compliance	CE Marked	North America: CLASS I, Division 1, Groups A, B, C and D, T4 CLASS I, Zone 0, AEx ia IIC T4 Ga T4 at -20~50°C			
		International:EX ia IIC T4 Ga T4 at -20~50°C			
Accuracy	0.02%, 0.05%, 0.1%, 0.2% of full span (For detailed	d accuracy, please see pressure range table)			
Gauge Types	Gauge pressure, compound pressure				
Installation direction	Installed axially				
	Description: Wide viewing angle FSTN segment coo	le LCD , three partition design			
Display	White backlight, the lighting time can be set: ON, 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15				
	seconds 4-5 digit display can be switched.numeral display height: 16mm (0.62")				
Display Rate	3 readings per second in low power mode (defaul	t setting)			
Display Hate	Adjustable from 10 readings per second to 1 read				
D	Pa, kPa, MPa, psi, bar, mbar, kgf/cm², %, inH ₂ O@4°C, mmH ₂ O@4°C, inHg@0°C, mmHg@0°C				
Pressure Units	6 engineering water columns:inH2O(20°C), inH2O(60°F), mmH2O(20°C), mmH2O(15°C), ftH2O(60°F), ftH2O(4°C)				
	1 custom unit: identified by the USER icon, and the conversion coefficient can be set through Additel-Link				
	Compensated Temperature: 14°F to 122°F (-10°C to 50°C)				
Environmental	Operating Temperature: -4°F to 122°F (-20°C to 50°C)				
	Storage Temperature: -40°F to 167°F (-40°C to 75°C) Humidity: 5%-95%,no condensation Working altitude: <3,000 meters				
	≤15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male				
Pressure Port	>15,000 psi: 1/4HP female or 1/4HP male *1/4HP female: Autoclave F-250-C, 9/16" - 18 UNF-2B *1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2A				
	External power supply through RS232 cable, and 3 AA alkaline batteries can also be installed as backup power				
Power	Battery life: 1. Super stable mode ^[1] : 4000 hours (3 reading/s, default), 1000 hours (10 reading/s) 2. Low power mode ^[2] : 5000 hours (2 reading/s), 9000 hours (1 reading/s), 18000 hours (1 reading/10s)				
	Power auto-off: 120, 90, 60, 45, 30, 15 minutes auto-off options				
	The factory default of power auto-off feature is inactive				
	Case material:304 SS; Front panel material: anti-static PET; Rubber boot material (optional): anti-static TPU				
Enclosure	Wetted parts material: 316L SS				
Enologuic	Dimension: Ø3.62" x 4.52"depth, flange Ø5.43" (Ø92mm x115 mm depth, flange Ø138mm)				
	Weight: 1.32 lbs (0.6 kg)				
Compliance	Protection Level: IP67				
	Vibration: 5g (20-2000 Hz)				
	Shock Resistance: 10g				
Data Logging (Optional)	Data storage: 800,000 records (time and pressure) or 400,000 records (time, pressure and temperature)				
,	Rate: user-selectable from 1 to 99,999 second intervals				
Communication	Bluetooth (BLE5.3), RS232 *(Do not use the RS-232 connector in a hazardous area)				
Warranty	1 year				

Note:
[1] The pressure sensor has been powered continuously when the gauge is on, to improve the measurement resolution and reduce the impact of ambient humidity.
[2] The pressure sensor will be powered off after each sampling, to improve the continuous working hours.

PRESSURE RANGE



Gauge Pressure [1]						
P/N	Pressure Range		Media ^[2]	Accuracy		Downt Downton
F/IN	(psi)	(bar)	ivieula	%FS	%RD ^[3]	Burst Pressure
V15	-15	-1	G, L ^[4]	0.02, 0.05, 0.1, 0.2	N/A	3×
GP5	5	0.35	G, L ^[4]	0.02, 0.05, 0.1, 0.2	0.1	3×
GP10	10	0.7	G, L ^[4]	0.02, 0.05, 0.1, 0.2	0.1	3×
GP15	15	1.0	G, L ^[4]	0.02, 0.05, 0.1, 0.2	0.1	3×
GP30	30	2.0	G, L ^[4]	0.02, 0.05, 0.1, 0.2	0.1	3×
GP50	50	3.5	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP100	100	7.0	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP150	150	10	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP300	300	20	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP500	500	35	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP600	600	40	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP1K	1,000	70	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP1.5K	1,500	100	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP2K	2,000	140	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP3K	3,000	200	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP5K	5,000	350	G, L	0.02, 0.05, 0.1, 0.2	0.1	3×
GP10K	10,000	700	G, L	0.02, 0.05, 0.1, 0.2	0.1	1.5×
GP15K	15,000	1,000	G, L	0.05, 0.1, 0.2	0.1	1.5×
GP20K	20,000	1,400	G, L	0.05, 0.1, 0.2	N/A	1.5×
GP25K	25,000	1,600	G, L	0.05, 0.1, 0.2	N/A	1.5×
GP30K	30,000	2,000	G, L	0.05, 0.1, 0.2	N/A	1.5×
GP36K	36,000	2,500	G, L	0.05, 0.1, 0.2	N/A	1.5×
GP40K	40,000	2,800	G, L	0.05, 0.1, 0.2	N/A	1.35×
GP50K	50,000	3,500	G, L	0.1, 0.2	N/A	1.2×
GP60K	60,000	4,200	G, L	0.1, 0.2	N/A	1.1×

^[1] Sealed gauge pressure for above 1,000 psi

vacuum: ± (0.25% of FS), FS=-14.5psi

[4] 0.02%FS for gas media only

Compound Pressure						
P/N	Pressure Range		Media [1]	Accuracy		D . D
P/IN	(psi)	(bar)	iviedia * *	%FS ^[2]	%RD ^[3]	Burst Pressure
CP5	±5	±0.35	G, L	0.1, 0.2	N/A	3×
CP10	±10	±0.7	G, L	0.05, 0.1,0.2	0.2	3×
CP15	±15	±1	G, L	0.05, 0.1, 0.2	0.2	3×
CP30	-15 to 30	-1 to 2	G, L	0.05, 0.1, 0.2	0.2	3×
CP50	-15 to 50	-1 to 3.5	G, L	0.05, 0.1, 0.2	0.2	3×
CP100	-15 to 100	-1 to 7	G, L	0.05, 0.1, 0.2	0.2	3×
CP150	-15 to 150	-1 to 10	G, L	0.05, 0.1, 0.2	0.2	3×
CP300	-15 to 300	-1 to 20	G, L	0.05, 0.1, 0.2	0.2	3×
CP500	-15 to 500	-1 to 35	G, L	0.05, 0.1, 0.2	N/A	3×
CP600	-15 to 600	-1 to 40	G, L	0.05, 0.1, 0.2	N/A	3×
CP1K	-15 to 1K	-1 to 70	G, L	0.05, 0.1, 0.2	N/A	3×

^[1] G=Gas, L=Liquid
[2] FS specification applies to the span of the range
[3] %RD accuracy: 0% to 20% of range: ± (0.02% of full span),20% to 110% of range: ± (0.2% of reading) vacuum: ± (0.25% of FS), FS=-14.5psi

Barometric Pressure						
P/N	Pressure Range		Media ^[1]	Annual Accuracy	Burst	
F/IN	Low	High	iviedia	Aimual Accuracy	Pressure	
BP	60 kPa	110 kPa	G	±55Pa	3×	
BPH	60 kPa	110 kPa	G	±22Pa	3×	

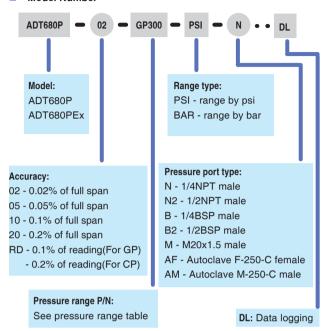
^[2] G=Gas, L=Liquid

^{[3] %}RD accuracy: 0% to 20% of range: ± (0.02% of full span),20% to 110% of range: ± (0.1% of reading)



ORDERING INFORMATION

Model Number



Accessories Included

AA alkaline battery (3 pcs) ISO 17025 accredited calibration certificate

Optional Accessories

Tel.: 03303 / 50 40 66

Fax.: 03303 / 50 40 68

Model number	Description			
9530-BASIC	Additel Acal Automated calibration software with asset management, basic version			
9530-NET	Additel Acal Automated calibration software with asset management, network version, Includes server installation and 1 user license			
9502	Additel Log II data logging software (PC)			
9814-X	Power supply kit (including power adapter and RS232 communication line)			
9530-PRO	Additel Acal Automated calibration software with asset management, professional version for single PC			
9050	USB to RS232 (DB9/M) Adapter			
9050-EXT	RS 232 (DB9/M) extension cable, 9 feet			