ADT-680 Series Digital Pressure Gauges



- Pressure ranges to 40,000 psi (2,800 bar)
- 0.05%, 0.1% or 0.25%FS accuracy
- **Fully temperature compensated accuracy**
- IP67
- Data logging and wireless (Optional model)



ADT-680 with data logging and wireless (optional)

OVERVIEW

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the ADT-680 series digital pressure gauges provide an accurate, reliable, and economic solution for a wide range of pressure applications. They are loaded with functionality and remarkably easy to use. To reach the best performance, every silicon pressure sensor in our gauges is specially aged, tested and screened before assembly. With data logging and wireless features, the 680W gauge can store pressure measurement data in the internal memory or display them on a PC through wireless communication. The ADT-680 series digital pressure gauges are unmatched in performance and reliability. Best of all they are very affordable.

FEATURES

- Pressure ranges to 40,000 psi (2,800 bar)
- 0.05%, 0.1% or 0.25% full scale accuracy
- Fully temperature compensated accuracy from 14°F to 122°F (-10°C to 50°C)
- Up to 13 selectable pressure units, 6 customized definition engineering units
- Large, easy to read display with 5-digit resolution
- Backlit display
- Icon-based menu
- Display flash warning when pressure exceeds 120% of FS
- Stainless wetted surface construction
- IP67 (submersible in 1 meter of water)
- Drop-tested from 1 meter
- 2 AA alkaline batteries
- CE R&TTE, FCC ID, IC ID Certificates
- NIST traceable calibration with data(included)

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SPECIFICATIONS

Models

ADT-680: Regular version

ADT-680W: Data logging and wireless version

Pressure Type: Gauge and Compound

Performance

Accuracy: 0.05%, 0.1% or 0.25%FS

Update Rate: 10 times/Sec ,3 times /Sec (default),

1 time /Sec ,1 time/15 Seconds

Operating Temperature: 14°F to 122°F (-10°C to 50°C) Compensated Temperature: 14°F to 122°F (-10°C to

50°C), accuracy guaranteed

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

Overload Pressure: 1.2X

Power Supply

Battery: 2 x AA alkaline (LR6) batteries

*Recommend: Duracell MX1500, EnergizerE91,

Panasonic LR6, or Duracell 15AU

Battery Life:

10 rdg/sec: 1500 hrs; 3 rdg/sec: 3000 hrs 1 rdg/sec: 6000 hrs; 1 rdg/15 sec: 12000 hrs. Rated Power: 3.0VDC Imax=30mA Pmax=90mW

Material

Wetted Surface: All wetted surfaces are 316L Stainless Steel with welded design for gauges \leq 10,000 psi (no O-ring, thread tape, epoxy, or sealant on any part of the sensor assembly), and copper O-ring design for gauges > 10,000 psi.

Case: PC+ABS

Protective Cover: Silicone Rubber



SPECIFICATIONS



LCD Specification: FSTN-LCD, Visual scope 36x61mm; Full 5 digits, 15.2mm High; 7 segment analog bar graph scaled from 0-100% of FS

Backlight: White

Wireless Communication (ADT-680W only)

Wireless Frequency: 2.4G ISM Bands, 20 meter range Number of wireless Channels : Chanel 1-15 Software: Wireless network demo software included

Data Logging (ADT-680W only)

Storage Capacity: 140,000 readings(time, pressure,

and temperature)

Storage Interval: Adjustable from 1-9999 Sec

Compliances

Certificates:CE R&TTE, FCC ID, IC ID

Protection Level: IP67 Vibration: 5g(20-2000Hz) Shock resistance: 100g/11ms

Others

Dimensions: 100mm x 40mm, total height:157mm

Weight: 500g

Fitting: 1/4NPT male, 1/4BSP male, M20×1.5 male

(≤15,000 PSI)

1/4HP female or 1/4HP male(≥15,000 PSI)

*1/4HP female: Autoclave F-250-C, 9/16" - 18 UNF-2B *1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2A

Other connections available per request

Gauge Pressure							
P/N	Pressure Range		A	Media ^[2]	Burst		
	(psi) ^[1]	(bar)	Accuracy(FS%)	wedia	Pressure		
V15	-15	-1.0	0.05 (0.1, 0.25)	G	3×		
GP15	15	1.0	0.05 (0.1, 0.25)	G,L	3×		
GP30	30	2.0	0.05 (0.1, 0.25)	G,L	3×		
GP100	100	7.0	0.05 (0.1, 0.25)	G,L	3×		
GP300	300	20	0.05 (0.1, 0.25)	G,L	3×		
GP500	500	35	0.05 (0.1, 0.25)	G,L	3×		
GP1K	1,000	70	0.05 (0.1, 0.25)	G,L	3×		
GP3K	3,000	200	0.05 (0.1, 0.25)	G,L	3×		
GP5K	5,000	350	0.05 (0.1, 0.25)	G,L	3×		
GP10K	10,000	700	0.05 (0.1, 0.25)	G,L	3×		
GP15K	15,000	1,000	0.05 (0.1, 0.25)	G,L	2×		
GP20K	20,000	1,400	0.05 (0.1, 0.25)	G,L	1.5×		
GP25K	25,000	1,600	0.1 (0.25)	G,L	1.5×		
GP30K	30,000	2,000	0.1 (0.25)	G,L	1.5×		
GP36K	36,000	2,500	0.1 (0.25)	G,L	1.5×		
GP40K	40,000	2,800	0.1 (0.25)	G,L	1.1×		

Compound Pressure							
P/N	Pressure Range		Accuracy(FS%)	Media ^[3]	Burst		
	(psi)	(bar)	Accuracy(F5%)	ivieuia	Pressure		
CP15	±15	±1	0.05(0.1, 0.25)	G,L	3×		
CP30	-15 to 30	-1 to 2	0.05(0.1, 0.25)	G,L	3×		

Note: [1]. Sealed gauge pressure for above 1000 psi.

[2][3].G=Gas, L=Liquid

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- Auto off:
 - Disabled, 15, 30, 45, 60, 90, or 120 Minutes.
- Filtering: Averaging (3 to 10 samples) or low-pass firstorder filter.
- Engineering units: Pa, kPa, MPa, bar, mba, psi, kgf/cm², mmH₂O, mmHg, inH₂O, inHg, ozf/in, %, °C, °F. extend units: inH₂O(20°C), inH₂O(60°F), mmH₂O(20°C), mmH₂O(15°C), ftH₂O(60°F), or ftH₂O(4°C)
- Backlight Duration:
 - Not auto off,15,30,45,60 seconds optional.
- Max/Min data capture: Saves Max and Min data during pressure measurement.
- Key Lockout: When the gauge is in auto-storing mode, the front panel buttons will be automatically locked.
- Overpressure Alarm: Display will flash over 120%FS
- Battery voltage Indicator: Displays the battery life remaining. When the battery voltage is too low, the gauge will power-off automatically.
- Overpressure Record:

Gauge will record max pressure data when the gauge is over pressured by 120% of FS.

Leakage test:

In leak test mode, the gauge will record beginning pressure, ending pressure, and show the difference ΔP .

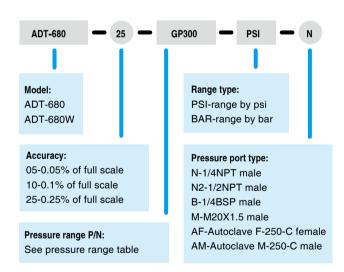
Factory Reset:

Resets all settings back to factory default, except the calibration parameters.

Warranty: 1 year

ORDERING INFORMATION

Model Number



Accessories included

Additel/Land Wireless software for ADT-680W (free download at www. additel.com)

Optional Accessories

Model number	Description	
9503	Additel/Log II Wireless real time data logging and graphical software for ADT-680W	

