

Additel 680 Series Digital Pressure Gauges

- Pressure ranges to 36,000 psi (2,500 bar)
- 0.05%, 0.1% or 0.25%FS accuracy
- Fully temperature compensated accuracy
- IP67
- Data logging and wireless (Optional model)



680 pressure gauge

680 with rubber boot (Optional)

OVERVIEW

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the 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 680 series digital pressure gauges are unmatched in performance and reliability. Best of all they are very affordable.

FEATURES

- Pressure ranges to 36,000 psi (2,500 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)

SPECIFICATIONS

- **Models**
 - ADT680: Regular version
 - ADT680W: Data logging and wireless version
 - Pressure Type: Gauge or 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
 - Usage Period:
 - 10/Sec:1500Hours; 3/Sec: 3000Hours;
 - 1/Sec: 6000Hours; 1/15Sec: 12000Hours
 - Rated Power: 3.0VDC I_{max}=30mA P_{max}=90mW
- **Material**
 - Wetted Surface: All wetted surfaces are 316L Stainless Steel with welded design for gauges ≤ 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 (Optional)

SPECIFICATIONS

- Display**
 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 (ADT680W 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 (ADT680W 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, M20x1.5 male ($\leq 15,000$ PSI)
 1/4HP female or 1/4HP male ($\geq 15,000$ 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

- Auto off:**
 Disabled, 15, 30, 45, 60, 90, or 120 Minutes.
- Filtering:** Averaging (3 to 10 samples) or low-pass first-order 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

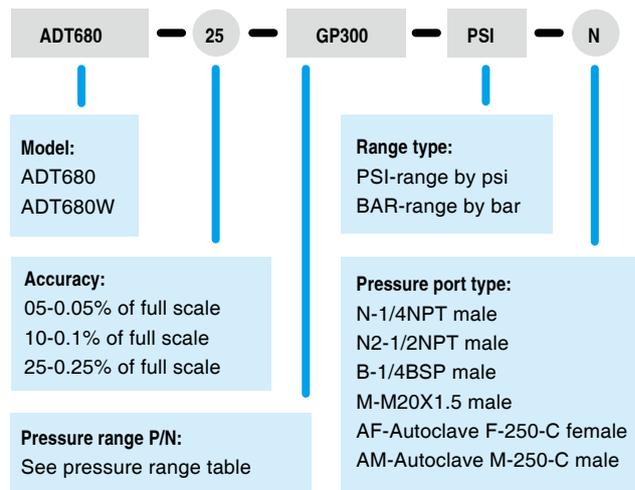
Gauge Pressure					
P/N	Pressure Range		Accuracy(FS%)	Media ^[2]	Burst Pressure
	(psi) ^[1]	(bar)			
V15	-15	-1.0	0.05(0.1, 0.25)	G	3x
GP15	15	1.0	0.05(0.1, 0.25)	G,L	3x
GP30	30	2.0	0.05(0.1, 0.25)	G,L	3x
GP100	100	7.0	0.05(0.1, 0.25)	G,L	3x
GP300	300	20	0.05(0.1, 0.25)	G,L	3x
GP500	500	35	0.05(0.1,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

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

Note: [1]. Sealed gauge pressure for above 1000 psi.
 [2][3]. G=Gas, L=Liquid (please specify media type when place order)

ORDERING INFORMATION

Model Number



Accessories included

AA battery (2 pcs); Manual; NIST traceable calibration certificate; Additel/Land Wireless software for 680W (free download at www.additel.com)

Optional Accessories

Model number	Description
9253	Rubber boot for Additel 680 gauge
9503	Additel/Log II Wireless real time data logging and graphical software for 680W

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