Additel 601Ex
Digital Pressure Gauges

Metrology Made Simple

- **Pressure ranges from -15 psi (-1 bar) to 15,000psi (1,000 bar)**
- **0.5% FS accuracy**
- Fully temperature compensated accuracy (-20°C to 50°C)
- Bluetooth communication
- Intrinsically safe
- Stainless steel case, fully welded sensor
- IP67 rated
- Battery life up to 9000 hours

OVERVIEW

The ADT601Ex intrinsically safe digital pressure gauge is designed to improve upon traditional dial pressure gauges by providing a reliable and accurate digital solution for a minimal investment. The included Bluetooth technology allows users to connect directly to mobile phones for remote monitoring. This genuine Additel gauge was designed for the field to be an economical, but accurate and dependable gauge for use in a variety of environments, including intrinsically sensitive areas.

Intrinsically Safe

The ADT601Ex has passed the most stringent ATEX, IECEx intrinsic safety certifications. Each unit complies with a certification level of Ex ia IIC T4 Ga. This highly qualified reference recorder can be widely used in potentially explosive gas environments, such as oil and gas platforms, refineries, chemical and petrochemical plants, pharmaceutical industry, energy and gas processing industry.

Durability

With a durable stainless steel outer shell, welded silicon piezoresistive sensor, and drop test rated to 1 meter, these gauges are up to the task in the most demanding environments. The dustproof and waterproof rating (IP67), coupled with the shock and vibration resistance (5g vibration 10g shock) offer even more insurance that these gauges are durable. If that wasn't enough, we've also designed them to handle up to 3X overpressure to guard against over pressure damage.

Easy-to-use

Field operators often have tight schedules and high task loads, and there is no extra time for making mistakes. This means that the digital pressure gauge must be simple and easy to use. The ADT601Ex series gauges are carefully designed with button functions which can be operated smoothly and quickly. The display is clear in bright sunlight, and the backlight can be turned on with one touch for darker ambient conditions. The pressure value can be displayed in large fonts and the pressure can be read from a few meters away. The pressure change trend bar is simple and clear.

Easy maintenance

The ADT601Ex 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.

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SPECIFICATIONS

Model	ADT601Ex
Description	Intrinsically Safe Digital Pressure Gauge
Intrinsic Safety & European Compliance	CE marked
	EU: II 1G EX ia IIC T4 Ga T4 at -20~50°C
	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	0.5% FS (For detailed accuracy, please see pressure range table)
Gauge Types	Gauge pressure
Operational buttons	4 membrane buttons with locking feature
Display	Wide viewing angle FSTN segment code LCD
	White backlight, backlight time: ON, 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15 seconds
	4 digits display, character height 14.5 mm(0.57") , main display + unit display + horizontal pressure trend
Pressure Units	12 regular units: Pa, kPa, MPa, psi, mbar, bar, kgf/cm2, %, mmH2O(4°C), mmHg(0°C), InH2O(4°C), InHg(0°C)
Environmental	Compensated Temperature: -4°F to 122°F (-20°C to 50°C)
	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%RH~95%RH, non-condensing
Pressure Port	1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male
Power	Battery: 3 AA alkaline batteries
	Battery life: 1. Super stable mode[1]: 4000 hours (3 reading/s), 1000 hours (10 reading/s) 2. Low power mode[2]: 5000 hours (2 reading/s), 9000 hours (1 reading/s, default), 18000 hours (1 reading/10s)
	Power auto-off: 120, 90, 60, 45, 30, 15 minute auto-off options or never
Enclosure	Case material: 304 SS, Front panel material: anti-static PET, Rubber boot (optional) material: anti-static TPU
	Wetted parts material: 316L SS
	Dimension: Ø3.62" x 1.69" depth x 5.59" height (Ø92 mm x 43 mm depth x 142 mm height)
	Weight: 1.2 Lb (0.55 kg)
Compliance	Protection Level: IP67(against 1 meter water immersion for 30 mins)
	Vibration: 5 g, Shock Resistance: 10 g
	1 meter drop test (without rubber boot)
Communication	Bluetooth (BLE5.3)
Certification	Certificate of conformity (no data).
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.

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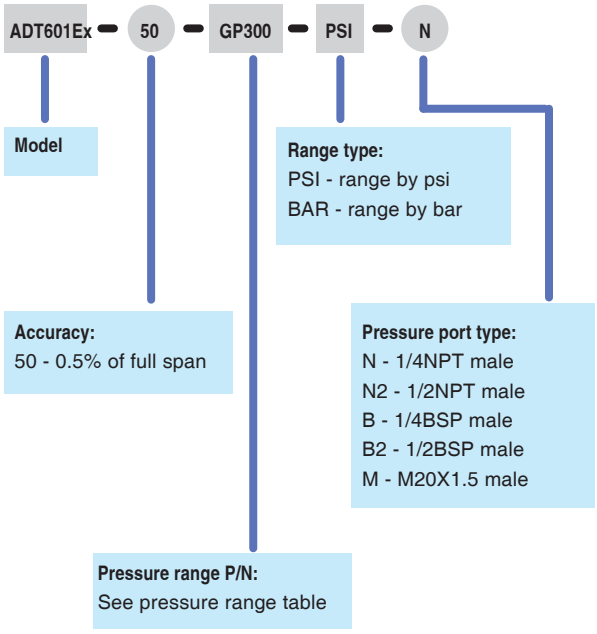
PRESSURE RANGE

Gauge Pressure [1]					
P/N	Pressure Range		Media[2]	Annual Accuracy	Burst Pressure
	(psi)	(bar)		%FS	
V15[3]	-15	-1.0	G, L	0.5	3×
GP15	15	1.0	G, L	0.5	3×
GP30	30	2.0	G, L	0.5	3×
GP50	50	3.5	G, L	0.5	3×
GP100	100	7.0	G, L	0.5	3×
GP150	150	10	G, L	0.5	3×
GP300	300	20	G, L	0.5	3×
GP500	500	35	G, L	0.5	3×
GP1K	1,000	70	G, L	0.5	3×
GP1.5K	1,500	100	G, L	0.5	3×
GP3K	3,000	200	G, L	0.5	3×
GP5K	5,000	350	G, L	0.5	3×
GP10K	10,000	700	G, L	0.5	1.5×
GP15K	15,000	1,000	G, L	0.5	1.5×

[1] Sealed gauge pressure for above 1,000 psi
[2] G=Gas, L=Liquid
[3] Vacuum range is -15~0 psi

ORDERING INFORMATION

Model Number



Accessories Included

AA alkaline batteries (3 pcs)
Certificate of conformity (no data)

Optional Accessories

Model number	Description
9259	Rubber Boot for 680AEx & 601Ex gauge (Red)
9040	Hanging strap with magnet
9257	Field rain cover
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)
9920	Carrying case for one ADT680A or ADT601Ex digital pressure gauge

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