Additel 681A

Digital Pressure Gauges

- Pressure ranges to 60,000 psi (4,200 bar)
- 0.02%, 0.05% FS or 0.1% RD accuracy
- Measures gauge or absolute pressure
- % pressure indication with fan-shaped graphic
- Fully temperature compensated accuracy (-10~50°C)
- Bluetooth communication
- Communication with Additel's Link Mobile App
- Large easy-to-read display
- Intrinsically safe version (681AEx)
- Data logging (up to 10,000,000 records)
- IP67 rated



Metrology Made Simple













OVERVIEW

Additel's 681A Series Digital Pressure Gauges are designed to be your favorite tool for a wide range of pressure measurement and calibration 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 ADT681A has been built with the finest materials to ensure that it can hold up the elements. Everything from the stainless steel 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 this gauges ability to perform while the shock and vibration resistance (5g vibration 10g shock) coupled with the corrosion resistant wetted parts help to protect the inner workings of these durable Additel gauges.

Easy to use:

Technicians often have tight schedules and heavy workloads, which leaves little extra time for correcting mistakes or doing rework. The ADT681A solves this problem with carefully designed 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. The 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 ADT681A is designed with membrane buttons, making them easy to clean and maintain over time, 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.





Addite

SPECIFICATIONS

Metrology Made Simple

Description Digital Pressure Gauge Intrinsic Safety & European Compliance Bill (€ GE marked CE marked European Compliance Bill (1 GEX is II CT 14 GB 14 at 2-0-50°C North American CLASS I, Division 1, Groupe A, B, C and D, T4 SELVE II (1 GEX is III CT 14 GB 14 at 2-0-50°C North American CLASS I, Division 1, Groupe A, B, C and D, T4 SELVE II (1 GEX is III CT 14 GB 14 at 2-0-50°C North American CLASS I, Division 1, Groupe A, B, C and D, T4 SELVE II (1 GEX is III CT 14 GB 14 at 2-0-50°C North American CLASS I, Division 1, Groupe A, B, C and D, T4 SELVE II CT 14 GB 14 at 2-0-50°C Bill International EX is III CT 14 GB 14 at 2-0-50°C Accuracy (For detailed accuracy, pressure per pressure ringe table) SELVI-II to 20% of full span SELVI-II to 20% of full span SELVI-II to 20% of full span SELVI-II to 20% of range: 2 (0.02% of full span) 20% to 10% of range: 2 (0.02% of full span) SELVI-II to 20% of range: 2 (0.02% of full span) SELVI-II to 20% of range: 2 (0.02% of full span) SELVI-II to 20% of range: 2 (0.02% of full span) Amospheric pressure, ambient temperature, peak-peak values (max, min), TARE, leak test, pressure), and international pressure and baromatric pressure), differential pressure and baromatric pressure) Pressure Units Pressure Port P			Metrology Made Simple			
Intrinsic Safety & European Compliance C C Emarked	Model	ADT681A	ADT681AEx			
Intrinsic Safety & European Compliance	Description	Digital Pressure Gauge	Intrinsically Safe Digital Pressure Gauge			
North American CLASS I, Division 1, Groups A, B, C and D, T4			(€ CE marked			
Accuracy (For detailed accuracy, please) Seep pressure range habite) BB1A(EX-)DS: 0.05% of full span) BB1A(EX-)DS: 0.05% of frange: ± 0.02% of full span) 20% to 110% of range: ± 0.1% of reading) Waccurn: ± 0.25% of FS), FS=-14.5psi Built-in barrometer: ± 5 Ps Gauge pressure. compound pressure abolute pressure (calculated by gauge pressure and barrometic pressure and barrometic pressure and barrometic pressure. Multifunction Fan-ahapd section Pan-ahapd section White backlight, backlight time: 0.N. 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15 seconds 5-6 digit display can be switched, character height 14.8mm(0.83), main display + unit display + fan-shaped section Passure Units Pressure Units Passure Units Compensated Temperature: 44°F to 122°F (-10°C to 50°C) Operating Temperature: 44°F to 122°F (-10°C to 50°C) Humidity: 5%RH-95%RH, no condensing **15,000 ppi: 1/4HP female: Autoclave P.250°C, 9/16°-18 UNF-2A Differential Pressure: barb fitting Other connections available per request Battery: 3 AA alkaline bateries Battery: 3 AA alkaline bateries Battery: 3 AA alkaline bateries Battery: 3 AA alkaline bateries Camerative: barb fitting Other connections available per request Enclosure Compliance Compliance Compliance Compliance Compliance Compliance Compliance Compliance Complia	&	(€ 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			
Accuracy For detailed accuracy, please see pressure range table) Ball-(Ex)-RD. 0% to 20% to 110% of range: ± (0.2% of full span) Bulli-in bornemetr: ± 55 Pa Bulli-in bornemetr: ± 55 Pa Gauge Types Gauge Types Multifunction Fan-shaped section Mide tifunction Fan-shaped section Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide viewing angle FSTN segment code LCD, three partition design Wide backlight time: ON, 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15 seconds Secondary and three partitions designed to the partition design of the		681A(Ex)-02: 0.02% of full span				
Multifunction Atmospheric pressure and barometric pressure Afficial Atmospheric pressure, ambient temperature, peak-peak values (max, min), TARE, leak test, pressure percentage Afficial Atmospheric pressure, ambient temperature, peak-peak values (max, min), TARE, leak test, pressure percentage Affancial	(For detailed accuracy, please	681A(Ex)-RD: 0% to 20% of range: ± (0.02% of full sp 20% to 110% of range: ± (0.1% of read vacuum: ± (0.25% of FS), FS=-14.5psi	ling)			
Display Wide viewing angle FSTN segment code LCD, three partition design	Gauge Types		ssure (calculated by gauge pressure and baromatric pressure),			
Display Wilde viewing angle FSTN segment code LCD, three partition design White backlight, backlight time: ON, 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15 seconds S-6 digit display can be switched, character height 14.8mm(0.58"), main display + unit display + fan-shaped section Pa, kPa, MPa, psl, mbar, bar, kgfcm2, %, mmH2O(4°C), mmH2O(4°C), InH2O(4°C), InH2O(60°F), mtH2O(4°C), InH2O(60°F), mtH2O(15°C), InH2O(60°F), InH2O(61°C), InH2O(60°F), mtH2O(15°C), InH2O(15°C), InH2O(15	Multifunction	Atmospheric pressure, ambient temperature, peak-	peak values (max, min), TARE, leak test, pressure percentage			
White backlight, backlight time: ON, 15 seconds, 30 seconds, 45 seconds, 60 seconds, the default is 15 seconds 5-6 digit display can be switched, character height 14.8mm(0.58°), main display + unit display + fan-shaped section Pa, kPa, MPa, psi, mbar, bar, kg/fcm2, %, mmH2O(4°C), mmH2O(4°C), inH2O(60°F), inH2O(60°	Fan-shaped section	display, time display, data logging status				
Pa. kPa. MPa. psi, mbar. bar. kgt/cm2, %, mmH2O(4*C), mmHg(0*C), InH2O(4*C), InH2O(6*C) 6 engineering water column units: inH2O(20*C), inH2O(60*F), mmH2O(20*C), mmH2O(15*C), ftH2O(60*F), ftH2O(6*C) 1 custom units identified by the USER code, and the conversion coefficient can be set through Additel -Link Compensated Temperature: 44*F to 122*F (-10*C to 50*C) Operating Temperature: -40*F to 167*F (-40*C to 75*C) Humidity: 5%RH-95%RH, no condensing = 15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male > 15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male 1/4HP male: Autoclave M-250-C, 9/16*- 18 UNF-2B 1/4HP male: Autoclave M-250-C, 9/16*- 18 UNF-2A Differential Pressure: barb fitting Other connections available per request Battery: 3 AA alkaline batteries 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 minute auto-off options or never External power: power supply through USB (optional) Case material: 304 SS; Front panel material: anti-static PET; Rubber boot material (optional): anti-static TPU Wetted parts: 316L SS Dimension: 04.65* x 1.65* depth x 7* height (0118 mm x 42 mm depth x 178 mm height) Weight: 1.5 its (0.68 kg) 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) Data Logging (Optional) Pata Logging (Optional) Bluetooth (BLE4.2), USB-C, RS232 *(Do not use the USB-C or RS-232 connector in a hazardous area)	Display	White backlight, backlight time: ON, 15 seconds, 30 s	econds, 45 seconds, 60 seconds, the default is 15 seconds			
Pressure Units 6 engineering water column units: inH2O(20°C), inH2O(60°F), mmH2O(15°C), ftH2O(60°F), ftH2						
1 custom unit: identified by the USER code, and the conversion coefficient can be set through Additel -Link Compensated Temperature: 4°F to 122°F (-10°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, no condensing	Pressure Units					
Compensated Temperature: 14°F to 122°F (-10°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, no condensing \$\leq\$ 15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2NPT male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2BSP male, 1/2BSP male, M20×1.5 male, 1/2BSP male, M20×1.5 male 215,000 psi: 1/4HP female or 1/4HP male, 1/2BSP male, 1/2BSP male, M20×1.5 male, 1/2BSP male, 1/						
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Section Sect	Environmental	Storage Temperature: -40°F to 167°F (-40°C to 75°C)				
Pressure Port Pressure Port		Humidity: 5%RH~95%RH, no condensing				
Power Battery: 3 AA alkaline batteries 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 minute auto-off options or never External power: power supply through USB (optional) Case material: 304 SS; Front panel material: anti-static PET; Rubber boot material (optional): anti-static TPU Wetted parts: 316L SS Dimension: Ø4.65" x 1.65" depth x 7" height (Ø118 mm x 42 mm depth x 178 mm height) Weight: 1.5 lbs (0.68 kg) 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) Data storage: 10,000,000 records (time and pressure) or 5,000,000 records (time, pressure and temperature) Rate: user-selectable from 0.1 to 99,999 second intervals Communication Bluetooth (BLE4.2), USB-C, RS232 *(Do not use the USB-C or RS-232 connector in a hazardous area) ISO 17025 Accredited Calibration Certificate with data	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 Differential Pressure: barb fitting				
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Rate: user-selectable from 0.1 to 99,999 second intervals Communication Bluetooth (BLE4.2), USB-C, RS232 *(Do not use the USB-C or RS-232 connector in a hazardous area) Calibration ISO 17025 Accredited Calibration Certificate with data	Data Logging (Ontions)					
Calibration ISO 17025 Accredited Calibration Certificate with data	Data Logging (Optional)	Rate: user-selectable from 0.1 to 99,999 second intervals				
	Communication	Bluetooth (BLE4.2), USB-C, RS232 *(Do not use the U	JSB-C or RS-232 connector in a hazardous area)			
Warranty 1 year	Calibration	ISO 17025 Accredited Calibration Certificate with 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

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Gauge Pressure [1]							
P/N	Pressure Range		Media ^[3]	Annual A	Accuracy	Burst	
P/IN	(psi)	(bar)	iviedia.	%FS	%RD ^[4]	Pressure	
V15 ^[2]	-15	-1.0	G	0.02	N/A	3×	
V15 ^[2]	-15	-1.0	G, L	0.05	N/A	3×	
GP2	2	0.16	G	0.05	N/A	3×	
GP5	5	0.35	G, L	0.05	0.1	3×	
GP10	10	0.7	G, L	0.02,0.05	0.1	3×	
GP15	15	1.0	G, L	0.02,0.05	0.1	3×	
GP30	30	2.0	G, L	0.02,0.05	0.1	3×	
GP50	50	3.5	G, L	0.02,0.05	0.1	3×	
GP100	100	7.0	G, L	0.02,0.05	0.1	3×	
GP150	150	10	G, L	0.02,0.05	0.1	3×	
GP300	300	20	G, L	0.02,0.05	0.1	3×	
GP500	500	35	G, L	0.02,0.05	0.1	3×	
GP600	600	40	G, L	0.02,0.05	0.1	3×	
GP1K	1,000	70	G, L	0.02,0.05	0.1	3×	
GP1.5K	1,500	100	G, L	0.02,0.05	0.1	3×	
GP2K	2,000	140	G, L	0.02,0.05	0.1	3×	
GP3K	3,000	200	G, L	0.02,0.05	0.1	3×	
GP5K	5,000	350	G, L	0.02,0.05	0.1	3×	
GP10K	10,000	700	G, L	0.02,0.05	0.1	1.5×	
GP15K	15,000	1,000	G, L	0.05 (0.1)	0.1	1.5×	
GP20K	20,000	1,400	G, L	0.05 (0.1)	N/A	1.5×	
GP25K	2,000	1,600	G, L	0.05 (0.1)	N/A	1.5×	
GP30K	30,000	2,000	G, L	0.05 (0.1)	N/A	1.5×	
GP36K	36,000	2,500	G, L	0.05 (0.1)	N/A	1.5×	
GP40K	40,000	2,800	G, L	0.05 (0.1)	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

^[2] Vacuum range is (-15~0) psi
[3] G=Gas, L=Liquid
[4] %RD accuracy: 0% to 20% of range: ± (0.02% of full span), 20% to 110% of range: ± (0.1% of reading)
vacuum: ± (0.25% of FS), FS=-14.5psi

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

[1] G=Gas



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Compound Pressure						
P/N	Pressure Range		Media ^[1]	Accuracy		Burst
P/IN	(psi)	(bar)	iviedia.	%FS ^[3]	%RD ^[4]	Pressure
CP2	±2	±0.16	G	0.05	N/A	3×
CP5	±5	±0.35	G, L ^[2]	0.02,0.05	0.1	3×
CP10	±10	±0.7	G, L ^[2]	0.02,0.05	0.1	3×
CP15	±15	±1.0	G, L ^[2]	0.02,0.05	0.1	3×
CP30	-15~30	-1~2.0	G, L ^[2]	0.02,0.05	0.1	3×
CP50	-15~50	-1~3.5	G, L	0.02,0.05	0.1	3×
CP100	-15~100	-1~7.0	G, L	0.02,0.05	0.1	3×
CP150	-15~150	-1~10	G, L	0.02,0.05	0.1	3×
CP300	-15~300	-1~20	G, L	0.02,0.05	0.1	3×
CP500	-15~500	-1~35	G, L	0.02,0.05	N/A	3×
CP600	-15~600	-1~40	G, L	0.02,0.05	N/A	3×
CP1K	-15~1000	-1~70	G, L	0.02,0.05	N/A	3×



- [2] 0.02%FS for gas media only
- [3] FS = upper limit of range lower limit of range
- [4] %RD accuracy: 0% to 20% of range: ± (0.02% of full span)

20% to 110% of range: ± (0.1% of reading) vacuum: ± (0.25% of FS), FS=-14.5psi

Differential P	Differential Pressure					
P/N		ıre Range	Media ^[1]	Accuracy	Burst	Static
F/IN	(inH ₂ O)	(mbar)	iviedia	(%FS) ^[3]	Pressure	Pressure Range (mbar)
DP1	±1	±2.5	G	$0.05^{[2]}$	50X	±250
DP2	±2	±5.0	G	0.05 ^[2]	25X	±250
DP5	±5	±10	G	0.05	10X	±250
DP10	±10	±25	G	0.05	5X	±250
DP20	±20	±50	G	0.05	25X	±2,500
DP30	±30	±75	G	0.05	15X	±2,500
DP50	±50	±125	G	0.05	10X	±2,500
DP100	±100	±250	G	0.02	5X	±2,500
DP150	±150	±350	G	0.02	10X	±7,000
DP300	±300	±700	G	0.02	5X	±7,000



[2] Calibration interval: 180 days

[3] FS = upper limit of range - lower limit of range





IP67 Rated

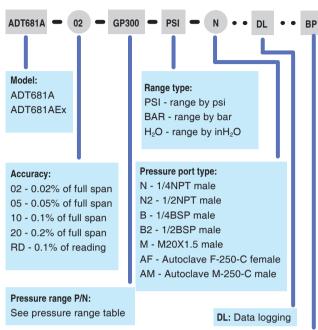


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Addite

ORDERING INFORMATION Metrology Made Simple

■ Model Number



±55 Pa

Accessories Included

Rubber boot
AA alkaline batteries (3 pcs)
USB-C cable
Silicone tube - 1 meter each (2 pcs for DP models only)
ISO 17025 accredited calibration certificate

Optional Accessories

Model number	Description
9040	Hanging strap with magnet
9257	Field rain cover
9810	USB power adaptor
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)
9050-EXT	RS 232 (DB9/M) extension cable, 9 feet
9902	Carrying case for four gauges
9903	Carrying case for one gauge

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