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Additel 681 Digital Pressure Gauges





- 0.02%, 0.05%, 0.1%, 0.2% FS or 0.1%RD accuracy
- % pressure indication with fan-shaped graph scale for visual reference
- Fully temperature compensated accuracy
- Panel mount gauges are available
- Intrinsically safe version (681IS)
- Data logging option
- IP67 rated (681IS)



IEC TECEX

Gauge pressure

Differential pressure

OVERVIEW

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the 681 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. At Additel, fully temperature compensated accuracy means every sensor is pressure tested at several environmental temperatures from -10°C to 50°C. With this test data individual coefficients are generated and stored in the gauge characterizing its performance over the full temperature compensated range. And now the ADT681IS comes with an IP67 rating meaning it is dust resistant and water proof, submersible in 1 meter of water.

Designed to fit your need

Additel pressure gauges give you the widest variety of sensor choices on the market. Whether you require low inches of water measurement or very high pressure measurement, we have a gauge that will meet your need. We offer sensors which are ± 1 inH₂O (± 2.5 mbar) to 60K psi (4,200 bar) and everything in between.

Do your applications require you to measure both positive and vacuum pressure? Our compound gauges do not compromise accuracy and provides you with the same high accuracy specification on both positive and vacuum pressures. We offer a wide variety up to 300 psi (20 bar). If you need a higher range, just contact us and we can likely customize one to meet your need. We also offer absolute pressure sensors to 5K psi (350 bar) and a full range of differential pressure sensors from ± 1 inH₂O (± 2.5 mbar) to ± 300 inH₂O (± 700 mbar). Are you looking for a pressure gauge to use in hazardous areas? Our certified (ATEX, CSA US & IECEx) intrinsically safe models (681IS) are designed for pressure measurement in hazardous areas.

If you need to panel mount our sensors, we offer the option (see ordering information) for a back-mounted pressure port and gauge housing designed to fit in a panel. And most recently, we've added the option to do stand-alone data logging with the 681. Now you can record more than 21,000 records internal to the 681 series. Each record includes date, time, pressure and temperature readings. Download the logged data with our free Additel/Land software or you can purchase our Additel/Log II for real-time logging and data analysis. The 681 series digital pressure gauges are unmatched in performance and reliability. Best of all, they are very affordable.

FEATURES

- Pressure ranges to 60,000 psi (4,200 bar)
- 0.02% full scale accuracy (681-02)
 - 0.05% full scale accuracy (681-05)
 - 0.1% full scale accuracy (681-10)
 - 0.2% full scale accuracy (681-20)
 - 0.1% reading scale accuracy (681-RD)
- IP67 rated: Submersible in 1 meter of water(681IS)
- Fully temperature compensated accuracy from 14°F to 122°F (-10°C to 50°C)
- Up to eleven selectable pressure units
- Large, easy to read display with 5-digit resolution

- Backlit display
- % pressure indication with fan-shaped graph scale for visual reference
- Display flash warning when pressure over 120% of FS
- Bottom mount or panel mount
- ATEX certified intrinsically safe (Model 681IS)
- ISO17025 accredited calibration with data(included)
- 9V battery power or AC adapter (optional)
- Data logging to 21,843 records (includes date, time, pressure and temperature)

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SPECIFICATIONS



Description Digital Pressure Gauge Intrinsically Safe Digital Pressure Gauge C C C Emarked C C C C C C C C C C C C C C C C C C	Model	ADT681	ADT681IS						
European Compliance 881(IS)-D2 : 0.02% of full scale 881(IS)-D2 : 0.02% of full scale 881(IS)-D2 : 0.05% of full scale 881(IS)-D3 : 0.05%	Description	Digital Pressure Gauge	Intrinsically Safe Digital Pressure Gauge						
Recursion Recu	&	ATEX certified intrinsically safe							
(For detailed concurancy, please see pressure range table) 681 ((S)-10: 0.2% of full scale 681 ((S)-20: 0.2% of full scale 681 ((S)-20: 0.2% of full scale 681 ((S)-20: 0.2% of full scale 7									
Comparated accuracy, pleases B81(IS)-20: 0.2% of full scale B81(IS)-RD: 0.0% to 20% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale 20% to 110% of Range: 0.1% of Ra	Accuracy								
B81(IS)-RD: 0% to 20% of Range: 0.02% of full scale 20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full scale I ⁽¹⁾⁽¹⁾ Vacuum: 0.25% of full scale I ⁽¹⁾⁽¹⁾ Cauge pressure, compound pressure, absolute pressure, differential pressure, barometric pressure Smillar to analog dials, including pressure awing, % indication with fan-shaped graph scale for visual reference, low/high alam. Description: 5 full digit FSTN LCD Display rate: 3 readings per second (Default setting). Adjustable from 10 readings per second to 1 reading every ten seconds Numeral display height: 16.5mm (0.65°) Adjustable from 10 readings per second (Default setting). Adjustable from 10 readings per second setting. Adjustable from 10 readings per second (Default setting). Adjustable from 10 readings per second setting. Adjusta	(For detailed accuracy, please								
Vacuum: 0.25% of full scale ^{D123}	see pressure range table)	. ,							
Similar to analog dials, including pressure swing, % indication with fan-shaped graph scale for visual reference, low/high alarm. Description: 5 full digit FSTN LCD		. ,	1110 % of hange. 0.1 % of reading						
Display Display Display Description: 5 full digit FSTN LCD Display rate: 3 readings per second (Default setting). Adjustable from 10 readings per second to 1 reading every ten seconds Numeral display height: 16.5mm (0.65') Pressure Units Pa. kPa. MPa. psi. bar, mbar, kg/fcm², inH_0@4*C mmH_0@4*C, inHg@0*C, mmHg@0*C Compensated Temperature: 44*F to 122*F (-10*C to 50*C) Operating Temperature: 44*F to 122*F (-10*C to 50*C) Storage Temperature: 44*F to 122*F (-10*C to 50*C) Humidity: <95% ≤15,000 psi: 1/4NPT male, 1/4NBSP male, 1/4BSP male, 1/2BSP male, M20×1.5 male >15,000 psi: 1/4NPT male, 1/4NPT male, 1/4NBSP male, 1/2BSP male, M20×1.5 male >11,44PP temale: Autoclave M-250*C, 9/16* - 18 UNF-2B 1/44PP temal	Gauge Types	Gauge pressure, compound pressure, absolute pressure, diff	erential pressure, barometric pressure						
Display rate: 3 readings per second (Default setting). Adjustable from 10 readings per second to 1 reading every ten seconds Numeral display height: 16.5mm (0.65°) Pressure Units Pa, kPa, MPa, psi, bar, mbar, kgf/cm², inH_0@4*C mmH_0@4*C, inHg@0*C, mmHg@0*C Compensated Temperature: 14*F to 122*F (-10*C to 50*C) Storage Temperature: 14*F to 128*F (-20*C to 70*C) Humidity: <95% ≤15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male >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-2B 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: 0.236 inch (Ø6 mm) test hose Other connections available per request Battery: One 9V alkaline battery (included) Battery: One 9V alkaline battery (included) Battery: One 9V alkaline battery (included) External power: 110/220V external power adapter (optional) Case material: Aluminum alloy Wetted parts: 316L SS Dimension: 0110mm X 35mm depth X 176mm height (panel mount gauge: 0140mm X 86mm depth) Weight: 0.6kg Protection Level: IP67(available for 681IS GP15-60K) Compliance Shock Resistance: 100g/11ms Data Logging (Available on with data logging option AD1681OLL) Shock Resistance: 100g/11ms Data Logging (Available on with data logging option AD1681OLL) Shock Resistance: 100g/11ms Rate: user-selectable from 1 to 99,999 second intervals Shock Resistance: 100g/11ms Shock Resistanc	Fan-shaped Graph Scale		on with fan-shaped graph scale for visual reference, low/high						
Adjustable from 10 readings per second to 1 reading every ten seconds		Description: 5 full digit FSTN LCD							
Adjustable from 10 readings per second to 1 reading every ten seconds Numeral display height: 16.5mm (0.65") Pressure Units Pa, kPa, MPa, psi, bar, mbar, kg/lcm², inH,0@4°C mmH ₂ 0@4°C, inHg@0°C, mmHg@0°C Compensated Temperature: 14°F to 122°F (-10°C to 50°C) Storage Temperature: 14°F to 122°F (-10°C to 50°C) Storage Temperature: 14°F to 122°F (-10°C to 50°C) Storage Temperature: 4°F to 158°F (-20°C to 70°C) Humidity: 455% ≤15,000 psi: 1/4NPT male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20×1.5 male >15,000 psi: 1/4NPT emale or 1/4HP male **1/4HP lemale: Autoclave F-250-C, 9/16° - 18 UNF-2B **1/4HP male: Autoclave M-250-C,	Display	Display rate: 3 readings per second (Default setting).							
Pressure Units Pa, kPa, MPa, psi, bar, mbar, kgt/cm², inH ₂ O@4°C mmH ₂ O@4°C, inHg@0°C Compensated Temperature: 14°F to 122°F (-10°C to 50°C) Operating Temperature: 14°F to 122°F (-10°C to 50°C) Storage Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: -95% ≤ 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 > 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 female: Autoclave F-250-C, 9/16° - 18 UNF-2B	Display	Adjustable from 10 readings per second to 1 reading every te	n seconds						
Compensated Temperature: 14°F to 122°F (-10°C to 50°C) Operating Temperature: 14°F to 122°F (-10°C to 50°C) Storage Temperature: 4°F to 122°F (-10°C to 50°C) Humidity: -95% ≤ 15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male > 15,000 psi: 1/4NP female or 1/4HP male 15,000 psi: 1/4NP female or 1/4HP male 14/4HP female: Autoclave F-250-C, 9/16°- 18 UNF-2B 1/4HP male: Autoclave F-250-C, 9/16°- 18 UNF-2A Differential Pressure: 0.236 inch (Ø6 mm) test hose Other connections available per request Battery: One 9V alkaline battery (included) Battery life: 1. High power mode: 320 hours 2. Low power mode: 320 hours (10 readings/s), 600 hours (3 reading/s), or 4000 hours (1 reading/10s) Power auto-off: 60 minutes power auto-off. Auto-off may be disable External power: 110/220V external power adapter (optional) Case material: Aluminum alloy Wetted parts: 316L SS Dimension: 0110mm X 35mm depth X 176mm height (panel mount gauge: 0140mm X 86mm depth) Weight: 0.6kg Protection Level: IP67(available for 681IS GP15-60K) Vibration: 5g (20-2000 Hz) Shock Resistance: 100g/11ms Data Logging (Available on with data logging option ADT881DL) Data storage: 21,843 records (each record includes date, time, pressure and temperature) Rate: user-selectable from 1 to 99,999 second intervals Rate: user-selectable from 1 to 99,999 second intervals		Numeral display height: 16.5mm (0.65")							
Pressure Port Storage Temperature: 14°F to 158°F (-20°C to 50°C)	Pressure Units	Pa, kPa, MPa, psi, bar, mbar, kgf/cm ² , inH ₂ O@4°C mmH ₂ O@	4°C, inHg@0°C, mmHg@0°C						
Storage Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: <95%		Compensated Temperature: 14°F to 122°F (-10°C to 50°C)							
Storage Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: -95%	Environmental	Operating Temperature: 14°F to 122°F (-10°C to 50°C)							
Section 2007 1/4NPT male, 1/2NPT male, 1/2BSP male, 1/2BSP male, M20x1.5 male 1/5,000 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 1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2B 1/44 Person mole: Autoclave M-250-C, 9/16" - 18 UNF-2B 1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2B 1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2B 1/44P male: Autoclave M-2		Storage Temperature: -4°F to 158°F (-20°C to 70°C)							
Pressure Port Pressure Port		Humidity: <95%							
Pressure Port *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: 0.236 inch (Ø6 mm) test hose Other connections available per request Battery: One 9V alkaline battery (included) Battery life: 1. High power mode: 320 hours 2. Low power mode: 320 hours (10 readings/s), 600 hours (3 reading/s), or 4000 hours (1 reading/10s) Power auto-off: 60 minutes power auto-off. Auto-off may be disable External power: 110/220V external power adapter (optional) Case material: Aluminum alloy Wetted parts: 316L SS Dimension: Ø110mm X 35mm depth X 176mm height (panel mount gauge: Ø140mm X 86mm depth) Weight: 0.6kg Protection Level: IP67(available for 681IS GP15-60K) Vibration: 5g (20-2000 Hz) Shock Resistance: 100g/11ms Auta Logging (Available on with data logging option ADT681DL) Communication RS232 "(Do not use the RS-232 connector in a hazardous atmosphere)		≤15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP male, 1/2BSP male, M20×1.5 male							
Pressure Port *1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2A Differential Pressure: 0.236 inch (Ø6 mm) test hose Other connections available per request Battery: One 9V alkaline battery (included) Battery life: 1. High power mode: 320 hours 2. Low power mode: 300 hours (10 readings/s), 600 hours (3 reading/s), or 4000 hours (1 reading/10s) Power auto-off: 60 minutes power auto-off. Auto-off may be disable External power: 110/220V external power adapter (optional) Case material: Aluminum alloy Wetted parts: 316L SS Dimension: Ø110mm X 35mm depth X 176mm height (panel mount gauge: Ø140mm X 86mm depth) Weight: 0.6kg Protection Level: IP67(available for 681IS GP15-60K) Vibration: 5g (20-2000 Hz) Shock Resistance: 100g/11ms Data Logging (Available on with data logging option ADT681DL) Rate: user-selectable from 1 to 99,999 second intervals Res23 *(Do not use the RS-232 connector in a hazardous atmosphere)									
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Compliance Protection Level: IP67(available for 681IS GP15-60K) Vibration: 5g (20-2000 Hz) Shock Resistance: 100g/11ms Data Logging (Available on with data logging option ADT681DL) Communication RS232 *(Do not use the RS-232 connector in a hazardous atmosphere)	Eliciosure	Dimension: Ø110mm X 35mm depth X 176mm height (panel mount gauge: Ø140mm X 86mm depth)							
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Shock Resistance: 100g/11ms Data Logging (Available on with data logging option ADT681DL) Rate: user-selectable from 1 to 99,999 second intervals Communication RS232 *(Do not use the RS-232 connector in a hazardous atmosphere)		Protection Level: IP67(available for 681IS GP15-60K)							
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(Available on with data logging option ADT681DL) Communication RS232 *(Do not use the RS-232 connector in a hazardous atmosphere)		Shock Resistance: 100g/11ms							
option ADT681DL) Rate: user-selectable from 1 to 99,999 second intervals Communication RS232 *(Do not use the RS-232 connector in a hazardous atmosphere)	55 5								
	, 55 5	Rate: user-selectable from 1 to 99,999 second intervals							
Warranty 1 year	Communication	RS232 *(Do not use the RS-232 connector in a hazardous at	mosphere)						
	Warranty	1 year							
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^[1] FS = -14.5 psi [2] Applicable ADT681-RD-CPX

Addite

PRESSURE RANGE

Gauge Press	ure [1]						
D/N	Pressure Range		Media ^[2]	Accuracy		Burst	
P/N	(psi)	(bar)	Media	%FS	%RD	Pressure	
V15	-15	-1.0	G	0.02 (0.05, 0.1, 0.2)	N/A	3×	
GP2	2	0.16	G	0.05 (0.1, 0.2)	N/A	3×	
GP5	5	0.35	G, L	0.05 (0.1, 0.2)	0.1	3×	
GP10	10	0.7	G, L ^[3]	0.02 (0.05, 0.1, 0.2)	0.1	3×	
GP15	15	1.0	G, L ^[3]	0.02 (0.05, 0.1, 0.2)	0.1	3×	
GP30	30	2.0	G, L ^[3]	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×	
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	3×	
GP15K	15,000	1,000	G, L	0.05 (0.1,0.2)	0.1	2×	
GP20K	20,000	1,400	G, L	0.05 (0.1,0.2)	N/A	1.5×	
GP25K	25,000	1,600	G, L	0.1 (0.2)	N/A	1.5×	
GP30K	30,000	2,000	G, L	0.1 (0.2)	N/A	1.5×	
GP36K	36,000	2,500	G, L	0.1 (0.2)	N/A	1.5×	
GP40K	40,000	2,800	G, L	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 [2] G=Gas, L=Liquid [3] 0.02% FS for gas media only

Barometric Pressure						
P/N	Pressure Range		Media	Modia Acquirony	Burst	
F/IN	Low	High	Media Accuracy		Pressure	
BP	60 kPa	110 kPa	G	40 Pa	3×	





04



Absolute Pressure Pressure Range Media Burst P/N Accuracy(%FS) Pressure (psi) (bar) 0.1 (0.2) AP5 5 0.35 G 3× AP10 0.1 (0.2) 10 0.7 G 3× AP15 15 G 0.1 (0.2) 1.0 3× AP30 30 2.0 G 0.1 (0.2) 3× AP50 50 G 0.1 (0.2) 3.5 3× AP100 100 7.0 G, L 0.05 (0.1, 0.2) 3× AP300 300 20 G, L 0.05 (0.1, 0.2) 3× AP500 500 G, L 35 0.05 (0.1, 0.2) 3× AP1K 1,000 70 G, L 0.05 (0.1, 0.2) 3× AP3K 3.000 200 G. L 0.05 (0.1, 0.2) 3× AP5K 5,000 350 G, L 0.05 (0.1, 0.2) 3×

[1] G=Gas, L=Liquid

Differential Pressure						
		e Range	Media	Accuracy	Burst	Static
P/N	(inH₂O)	(mbar)	Media	(%FS) ^[1]	Pressure	Pressure Range
DP1	±1	±2.5	G	$0.05^{[2]}$	100×	±10 psi
DP2	±2	±5.0	G	0.05 ^[2]	100×	±10 psi
DP5	±5	±10	G	0.05 ^[2]	50×	±10 psi
DP10	±10	±25	G	0.05 ^[2]	20×	±10 psi
DP20	±20	±50	G	0.05	20×	±10 psi
DP30	±30	±75	G	0.05	20×	±10 psi
DP50	±50	±160	G	0.05	3×	±10 psi
DP150	±150	±350	G	0.02 (0.05)	3×	50 psi
DP300	±300	±700	G	0.02 (0.05)	3×	50 psi

[1] FS specification applies to the span of the range. Accuracy includes one year stability.

[2] 0.05%FS accuracy (incl 6 months stability). One year accuracy is 0.05%FS calibration accuracy combined with 0.05%FS one year stability.

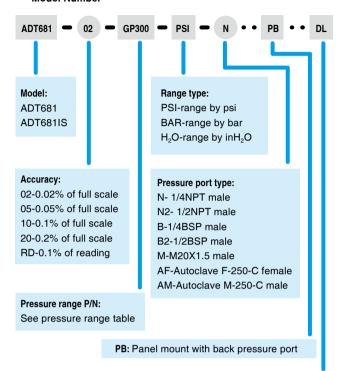
Compound Pressure						
P/N	Pressure I	Pressure Range		Accuracy		Burst
P/IN	(psi)	(bar)	[1]	%FS ^[2]	%RD	Pressure
CP2	±2	±0.16	G	0.05 (0.1,0.2)	N/A	3×
CP5	±5	±0.35	G	0.02 (0.05,0.1,0.2)	0.1	3×
CP10	±10	±0.7	G	0.02 (0.05,0.1,0.2)	0.1	3×
CP15	±15	±1	G	0.02 (0.05,0.1,0.2)	0.1	3×
CP30	-15 to 30	-1 to 2	G	0.02 (0.05,0.1,0.2)	0.1	3×
CP100	-15 to 100	-1 to 7	G, L	0.02 (0.05,0.1,0.2)	0.1	3×
CP300	-15 to 300	-1 to 20	G, L	0.02 (0.05,0.1,0.2)	0.1	3×

[1] G=Gas, L=Liquid

[2] FS specification applies to the span of the range.

ORDERING INFORMATION

Model Number



DL: Data logging

Accessories Included

Rubber boot (Except panel mount)
9V alkaline battery (1 pc)
Manual
ISO17025 accredited calibration certificate

Optional Accessories

Optional Accessories					
Model number	Description				
9812	110V/220V external power adapter (DC 9V) for 681 digital pressure gauge.				
9502	Additel/Log II real time data logging and graphical software for 681 and 672.				
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				
9050	USB to RS232 (DB9/M) Adapter				
9050-EXT	RS 232 (DB9/M) extension cable, 9 feet				
9900-681	Carrying Case for one 681 digital pressure gauge				
9902	Carrying case for 4 gauges				
9251	Rubber boot for ADT681				
9200-681	Certified O ₂ Cleaning for ADT681 gauges (some limitations apply)				

Note: For oil-free applications contact Additel.