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### **Additel 686**

## **Advanced Digital Pressure Gauges**



Metrology Made Simple

- Pressure ranges up to 60,000 psi (4,200 bar)
- 0.02%, 0.05% FS or 0.1% RD Accuracy
- Color Touchscreen Display
- **Every model measures Gauge or Absolute Pressure**
- Built-in Barometer
- Intuitive Smartphone Like Interface
- Wi-Fi (optional)
- Bluetooth and USB communication
- Data logging (optional)
- Communicates with Additel's Link Mobile App
- IP67 Rated





Additel 686

#### **OVERVIEW**

Additel's 686 Advanced Digital Pressure Gauges will redefine the way you want to measure pressure! With wireless remote connectivity, microprocessor technology, state of-the-art silicon pressure sensors and optional onboard storage capacity, these attractive and fully temperature compensated gauges will provide the performance, durability and reliability you've come to expect from genuine Additel products. The all new modern menu structure and control interface bring a new and refreshing experience to pressure calibration work. This completely new way of interfacing with our gauges makes the ADT686 a real pleasure to use. The handy Additel Link app gives users the ability to remotely monitor these gauges from the convenience of a personal device or cell phone. With an abundance of options to choose from, you can configure these pressure gauges to precisely fit your specific pressure calibration and measurement needs. With an IP67 rating, you will find that these amazing pressure gauges can be used in the field or laboratory to meet the most demanding pressure calibration needs.

#### A Modern User Experience:

Additel has gone above and beyond to provide our customers with the best possible experience when using these new and revolutionary gauges. The 3.4 inch color touchscreen display comes with a protective replaceable tempered glass screen and is a refreshing update to the traditional push button or blister pad interface. With an easy to navigate menu structure and fast touchscreen response, you will find these ADT686 gauges simple yet powerful to use. The easy to read display isn't just fun to use, but it's built rugged to handle the demands of a busy technician in the field or the laboratory.

#### **Every model measures Gauge or Absolute Pressure:**

The Additel 686 Digital Pressure Gauges contain a built-in barometer sensor which allows for the pressure reading to display in gauge pressure or absolute pressure with a simple menu selection. The built-in barometer is calibrated and certified to an accuracy of 50 Pa. With this unique feature, the ADT685 can be a solution for three common applications: gauge pressure measurement, absolute pressure measurement, and barometric or atmosphere pressure measurement. Having an Additel as your gauge will always give you the ability to do more with one instrument!

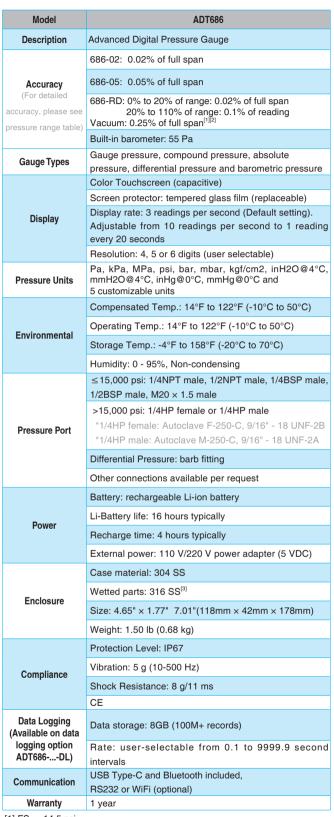


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#### **SPECIFICATIONS**



- [1] FS = -14.5 psi
- [2] Applicable to ADT686-RD-CPX
- [3] Wetted parts material types may vary by pressure range.
- Please refer to the manual or contact Additel for more information.

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#### PRESSURE RANGE

#### Metrology Made Simple

Gauge Pressure [1]								
P/N	Pressure	e Range	Media <sup>[2]</sup>	Accura	Accuracy			
F/IN	(psi)	(bar)	Media	%FS	%RD	Pressure		
V15	-15	-1.0	G	0.02 (0.05)	N/A	3×		
GP2	2	0.16	G, L	0.05	N/A	3×		
GP5	5	0.35	G, L	0.05	0.1	3×		
GP10	10	0.7	G, L <sup>[3]</sup>	0.02 (0.05)	0.1	3×		
GP15	15	1.0	G, L <sup>[3]</sup>	0.02 (0.05)	0.1	3×		
GP30	30	2.0	G, L <sup>[3]</sup>	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	25,000	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] G=Gas, L=Liquid
- [3] 0.02% FS for gas media only

Com	Compound Pressure									
P/N	Pressure	Range	Media	Accuracy		Burst				
P/IN	(psi)	(bar)	iviedia	%FS <sup>[1]</sup>	%RD	Pressure				
CP2	±2	±0.16	G	0.05	N/A	3×				
CP5	±5	±0.35	G	0.02 (0.05)	0.1	3×				
CP10	±10	±0.7	G	0.02 (0.05)	0.1	3×				
CP15	±15	±1	G	0.02 (0.05)	0.1	3×				
CP30	-15 to 30	-1 to 2	G	0.02 (0.05)	0.1	3×				
CP100	-15 to 100	-1 to 7	G, L	0.02 (0.05)	0.1	3×				
CP300	-15 to 300	-1 to 20	G, L	0.02 (0.05)	0.1	3×				
CP500	-15 to 500	-1 to 35	G, L	0.02 (0.05)	0.1	3×				
CP600	-15 to 600	-1 to 40	G, L	0.02 (0.05)	0.1	3×				
CP1K	-15 to 1000	-1 to 70	G, L	0.02 (0.05)	0.1	3×				

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#### Metrology Made Simple

#### PRESSURE RANGE

Absolute Pressure						
P/N	Pressure Range		Media	Accuracy/9/ ES	Burst	
F/IN	(psi)	(bar)	iviedia	Accuracy(%FS)	Pressure	
AP5	5	0.35	G, L	0.1	3×	
AP10	10	0.7	G, L	0.1	3×	
AP15	15	1.0	G, L	0.1	3×	
AP30	30	2.0	G, L	0.1	3×	
AP50	50	3.5	G, L	0.1	3×	
AP100	100	7.0	G, L	0.05 (0.1)	3×	
AP300	300	20	G, L	0.05 (0.1)	3×	
AP500	500	35	G, L	0.05 (0.1)	3×	
AP1K	1,000	70	G, L	0.05 (0.1)	3×	
АР3К	3,000	200	G, L	0.05 (0.1)	3×	
AP5K	5,000	350	G, L	0.05 (0.1)	3×	

Differential Pressure							
P/N	Pressure	Pressure Range		Accuracy	Burst	Static	
F/IN	(inH <sub>2</sub> O)	(mbar)	Media	(%FS) <sup>[1]</sup>	Pressure	Pressure Range	
DP1	±1	±2.5	G	0.05 <sup>[2]</sup>	100×	±10 psi	
DP2	±2	±5.0	G	0.05 <sup>[2]</sup>	100×	±10 psi	
DP5	±5	±10	G	0.05 <sup>[2]</sup>	50×	±10 psi	
DP10	±10	±25	G	0.05 <sup>[2]</sup>	20×	±10 psi	
DP20	±20	±50	G	0.05	20×	±10 psi	
DP30	±30	±75	G	0.05	20×	±10 psi	
DP50	±50	±125	G	0.05	3×	±10 psi	
DP100	±100	±250	G	0.02	3×	±15 psi	
DP150	±150	±350	G	0.02	3×	50 psi	
DP300	±300	±700	G	0.02	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.

Barometric P	ressure				
P/N	Pressure Range		Media	Accuracy	Burst
F/IN	Low	High	Wedia	Accuracy	Pressure
BP	60 kPa	110 kPa	G	55 Pa	3×

Communication Types Supported						
Comm Model	ADT685	ADT685Ex	ADT686	ADT673		
RS232	0	0	0	0		
RS485	0					
WiFi			0	0		
USB	•	•	•	•		
Bluetooth(BLE)	•	•	•	•		

	Included	Ontional	
-	mciuded	<ul><li>Optional</li></ul>	

Additel Software	Additel Software Compatibility Matrix							
Model	Δ	DT685/	ADT685E	Ξx	ADT686/ADT673			
Comm	ACal	LogII	Land	Link	ACal	LogII	Land	Link
RS232	•	•	•		•	•	•	
RS485 only for ADT685	$lackbox{0}^{[2]}$	$lackbox{0}^{[2]}$	$lackbox{0}^{[2]}$					
WiFi					•	•	•	<b>●</b> <sup>[1]</sup>
USB	•	•	•		•	•	•	
Bluetooth(BLE)				•				•

● Supported ● Non Ex models only

[1] This configuration requires that the device be connected to ACloud via Wi-Fi to utilize the

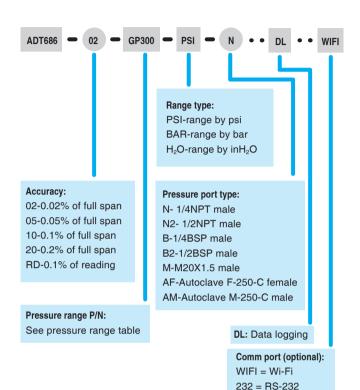
[2] 4-20mA output and RS-485 not available in ADT685Ex models.

## **ADT686**

## **Advanced Digital Pressure Gauges**

### **ORDERING INFORMATION**

Model Number





#### Accessories Included

Rubber boot
Rechargeable Lion battery (1 pc)
USB cable type-C
Power adapter
Silicone tube - 1 meter each (2 pcs for DP models only)
ISO 17025 Accredited Calibration Certificate

#### Optional Accessories

Model number	Description
9903	Carrying case for (1) digital pressure gauge
9502	Additel/Log II real time data logging and graphical software
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-EXT	RS 232 (DB9/M) extension cable, 9 feet
1520000359	Screen protector kit
9040	Hanging strap with magnet

Note: For oil-free applications contact Additel.