

# Additel 715

## Precision Pressure Indicator



- Up to 5 pressure measurement channels
- Pressure range from 2 psi to 15,000 psi
- Multiple accuracy options: 0.02%FS, 0.01%FS, 0.01%RD
- Built-in 1 or 2 gauge modules with barometric for absolute/gauge switching
- Connects 2 external high-precision digital modules
- Barometric module accuracy to  $\pm 10$  Pa
- 10.1" TFT color capacitive touchscreen
- Self-adaptive multichannel display

### OVERVIEW

The Additel 715 is a high-performance benchtop pressure monitor designed for exceptional accuracy and long-term stability. Built with an internal precision sensor, it offers a wide selection of built-in pressure modules, providing maximum flexibility in both range and accuracy.

For enhanced capability, the ADT715 supports high-precision internal modules and up to two external digital pressure modules—enabling up to five simultaneous pressure inputs. This makes it an ideal solution for calibration labs, manufacturing environments, and any application demanding highly accurate pressure measurement.

The large, easy-to-read touchscreen display and built-in pressure applications both streamline operation and increase productivity. With support for rack mounting and an optional high-capacity Li-ion battery, the ADT715 is equally functional in the lab or in the field. Whether you're looking for a simple, large-screen, high-accuracy barometer, a highly accurate five-channel pressure monitoring device, or something in between, the ADT715 has you covered.

## General Specifications

Specification	Description
<b>Display</b>	10.1 inch TFT color capacitive touch screen
<b>Display Rate</b>	10 readings per second
<b>Resolution</b>	5, 6, 7 digits (user selectable)
<b>Size</b>	11 × 9 × 6.26 in (281 × 230 × 159 mm)
<b>Weight</b>	10.48 lbs (4.8 Kgs) with 3 built-in modules and without external module and battery
<b>Power Supply</b>	28V DC adaptor, optional rechargeable Li-ion battery, typically 8 hours of operation
<b>Units</b>	psi, psf, atm, inH2O (4 °C), inH2O (20 °C), inH2O (60 °F), mbar, bar, Dy/cm2, pascal, hPa,kPa, MPa, inHg (0 °C), inHg (60 °F), mTorr, Torr, mmHg (0 °C), cmHg (0 °C), mHg (0 °C), mmH2O (4 °C), cmH2O (4 °C), mH2O (4 °C), mmH2O (20 °C), cmH2O (20 °C), mH2O (20 °C), ftH2O (4 °C), ftH2O (20 °C), ftH2O (60 °F), tsi, tsf, g/cm <sup>2</sup> , kg/cm <sup>2</sup> , kg/m <sup>2</sup> 5 customizable units 2 height units: Meters and feet
<b>Environment</b>	Working temperature: 0 ~ 40 °C Ensuring accuracy temperature: 15 ~ 35 °C Operating humidity: 0 % ~ 90% RH (non-condensing) Storage temperature: -20 ~ 70 °C Altitude: < 2000 m
<b>Compliance</b>	CE
<b>Warm-Up Time</b>	20 minutes (for optimal performance)
<b>Communication</b>	Wi-Fi (optional), USB*2, Ethernet*2, HDMI*1
<b>Installation Methods</b>	Supports desktop and rack installation (screw posts are reserved at the bottom of the device, which can be installed into the cabinet)
<b>Built-In Pressure Modules (CH1 &amp; CH2 &amp; CH3)</b> (See built-in pressure modules selection table)	Pressure port: 1/8 BSF F  Pressure ≤ 10K PSI: pre-installed with 1/8 BSP M to 1/4 BSP M adapter, optional high-pressure hose connection with various general adapters.  Pressure > 10K PSI: pre-installed with 1/8 BSP M to 1/4HP M adapter, optional ultra-high-pressure hose connection with various special adapters.  CH1 optional barometric pressure module; CH2 and CH3 can be equipped with 1 or 2 built-in pressure modules selected by the user
<b>External Module (CH4 &amp; CH5)</b> (See ADT161 Selection Table)	5-pin Lemo connector for connection with external pressure modules
<b>Accuracy</b>	Barometric module: ±10 Pa (For BPH), ±22 Pa (For BP); Gauge module: 0.01%FS, 0.02%FS, 0.01% rdg or 0.005% FS whichever is greater
<b>Annual Stability</b>	0.005%FS
<b>Pressure Medium</b>	≤ 15 psi: Dry, clean and non-corrosive gas compatible with 316SS > 15 psi: Non-corrosive gas or liquid compatible with 316SS
<b>Warranty</b>	1 Year

### Built-In Pressure Modules Selection Table

Barometric Pressure					
P/N	Pressure Range		Media	Accuracy	Burst Pressure
	Low	High			
BP	60 kPa	110 kPa	G	22Pa	3x
BPH	60 kPa	110 kPa	G	10 Pa	3x

Range	Model	Compound Gauge pressure		Media	Accuracy(%FS)	Burst Pressure
		1st range	2nd range			
CP15K		(-15~15000) psi (-1~1000) bar	(-15~6000) psi (-1~400) bar	G,L	0.01 (0.02)	3x
CP10K		(-15~10000) psi (-1~700) bar	(-15~5000) psi (-1~350) bar	G,L	0.01 (0.02)	3x
CP6K		(-15~6000) psi (-1~400) bar	(-15~3000) psi (-1~200) bar	G,L	0.01 (0.02)	3x
CP5K		(-15~5000) psi (-1~350) bar	(-15~3000) psi (-1~200) bar	G,L	0.01 (0.02)	3x
CP3.6K		(-15~3600) psi (-1~250) bar	(-15~1500) psi (-1~100) bar	G,L	0.01 (0.02)	3x
CP3K		(-15~3000) psi (-1~200) bar	(-15~1500) psi (-1~100) bar	G,L	0.01 (0.02)	3x
CP1.5K		(-15~1500) psi (-1~100) bar	(-15~1000) psi (-1~70) bar	G,L	0.01 (0.02)	3x
CP1K		(-15~1000) psi (-1~70) bar	(-15~500) psi (-1~35) bar	G,L	0.01 (0.02)	3x
CP600		(-15~600) psi (-1~40) bar	(-15~300) psi (-1~20) bar	G,L	0.01 (0.02)	3x
CP500		(-15~500) psi (-1~35) bar	(-15~300) psi (-1~20) bar	G,L	0.01 (0.02)	3x
CP300		(-15~300) psi (-1~20) bar	(-15~150) psi (-1~10) bar	G,L	0.01 (0.02)	3x
CP150		(-15~150) psi (-1~10) bar	(-15~60) psi (-1~4) bar	G,L	0.01 (0.02)	3x
CP100		(-15~100) psi (-1~7) bar	(-15~50) psi (-1~3.5) bar	G,L	0.01 (0.02)	3x
CP50		(-15~50) psi (-1~3.5) bar	(-15~30) psi (-1~2) bar	G,L	0.01 (0.02)	3x
CP35		(-15~35) psi (-1~2.5) bar	(-15~15) psi (-1~1) bar	G,L	0.01 (0.02)	3x
CP30		(-15~30) psi (-1~2) bar	(-15~15) psi (-1~1) bar	G,L	0.01 (0.02)	3x
CP15		(-15~15) psi (-1~1) bar	(-10~10) psi (-0.7~0.7) bar	G	0.01 (0.02)	3x
CP10		(-10~10) psi (-0.7~0.7) bar	(-5~5) psi (-0.35~0.35) bar	G	0.01 (0.02)	3x
CP5		(-5~5) psi (-0.35~0.35) bar	(-2~2) psi (-0.16~0.16) bar	G	0.01 (0.02)	3x

High-precision Gauge Pressure Module Specifications						
Model	Gauge pressure range	Absolute Pressure Range <sup>[1]</sup>	Media	Precision <sup>[2][4]</sup>	Accuracy <sup>[2][5]</sup>	Burst Pressure
CP15KM	(-15~15000) psi (-1~1000) bar	(0~15015) psi (0~1001) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	1.3x
CP10KM	(-15~10000) psi (-1~700) bar	(0~10015) psi (0~701) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP6KM	(-15~6000) psi (-1~400) bar	(0~6015) psi (0~401) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP5KM	(-15~5000) psi (-1~350) bar	(0~5015) psi (0~351) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP3.6KM	(-15~3600) psi (-1~250) bar	(0~3615) psi (0~251) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP3KM	(-15~3000) psi (-1~200) bar	(0~3015) psi (0~201) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP1.5KM	(-15~1500) psi (-1~100) bar	(0~1515) psi (0~101) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	1.3x
CP1KM	(-15~1000) psi (-1~70) bar	(0~1015) psi (0~71) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP500M	(-15~500) psi (-1~35) bar	(0~515) psi (0~36) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP300M	(-15~300) psi (-1~20) bar	(0~315) psi (0~21) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP150M	(-15~150) psi (-1~10) bar	(0~165) psi (0~11) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	1.3x
CP100M	(-15~100) psi (-1~7) bar	(0~115) psi (0~8) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP50M	(-15~50) psi (-1~3.5) bar	(0~65) psi (0~4.5) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP35M	(-15~35) psi (-1~2.5) bar	(0~50) psi (0~3.5) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x
CP30M	(-15~30) psi (-1~2) bar	(0~45) psi (0~3) bar	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	2x

[1] Absolute pressure is achieved through the synthesis of the basic gauge pressure module and the optional atmospheric pressure module.  
 [2] The accuracy of the negative pressure part is equal to the accuracy of the positive pressure part, such as the maximum error of -15 psi is equal to the maximum allowable error of 15 psi.  
 [3] FS refers to the positive range, and the accuracy of the negative pressure part is equal to that of the positive pressure part.  
 [4] Precision: the error components include linearity, hysteresis, repeatability, resolution, and temperature compensation.  
 [5] Accuracy: the error components include linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, annual drift, temperature compensation, K=2.



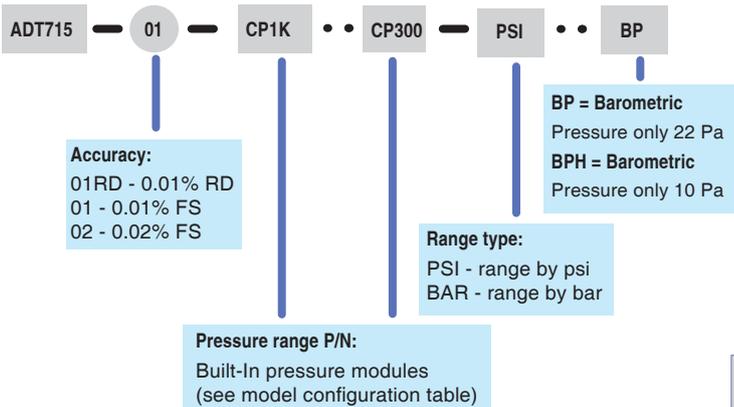
ADT715 Model Configuration Table				
Model	CH1 (Internal)	CH2 (Internal)	CH3 (Internal)	CH4 (External) & CH5 (External)
ADT715-BP/BPH 1 X Internal BP/BPH Module 2 X External ADT161 Module Ports	■ Barometric Module	○	○	Included
ADT715-X-CPX-BP/BPH 2 X Internal Pressure Modules 2 X External ADT161 Module Ports	■ Barometric Module	■ Pressure Module	○	Included
ADT715-X-CPX 1 X Internal Pressure Module 2 X External ADT161 Module Ports	○	■ Pressure Module	○	Included
ADT715-X-CPX-CPX 2 X Internal Pressure Modules 2 X External ADT161 Module Ports	○	■ Pressure Module	■ Pressure Module	Included
ADT715-X-CPX-CPX-BP/BPH 3 X Internal Modules 2 X External ADT161 Module Ports	■ Barometric Module	■ Pressure Module	■ Pressure Module	Included

Note: Switching between gauge and absolute pressure is supported via the built-in or external barometric module.

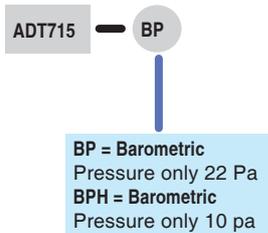
■-Required ○-Not Available

### Ordering Information

#### Model Number



#### Model Numbers for BP only units



### Accessories

Standard Accessories		
Description	QTY	Picture
28V external power cord	1 pc	
Battery Cover	1 pc	
O ring (5*1.5)	5 pcs	
Adapter, 1/4 NPT M to 1/4 BSP F	1 pc	
Pressure module connection cable 9060	1 pc	
Silicon tube 1.5m (BP/BPH models only)	1 pc	
Adapter, 1/4 BSP F to barb connection (BP/BPH models only)	1 pc	
ISO 17025 accredited calibration certificate	1 pc	

Optional Accessories		
Model	Description	Picture
9725	Rechargeable Li-ion battery	
9050	Serial converter with extended cable	
9055-2	USB to WIFI module	
9060	Pressure module connection cable	
ADT100-X-X (For black flexible hose)	ADT100-BSPM4-M20M	
	ADT100-BSPM4-BSPM2	
	ADT100-BSPM4-BSPM4	
	ADT100-BSPM4-NPTM2	
ADT100-NPTM4-BSPM4		
ADT100-HPM-HPM	Adapter, 1/4HP male to 1/4HP male for use with red flexible hose	
Black Flexible Hose (1810200724)	Black, 1.5m, maximum pressure: 720 bar, for pressure ≤ 700 bar	
ADT100-BSPF4-BARB	Adapter, 1/4 BSP F to 6mm barb fitting	
ADT100-HTK-40K-HPF-HPF	Red, 1.5m, maximum pressure: 280MPa for Pressure > 700 bar	
Silicone tube (1710400040)	Silicone tube (1.5m)	