

Additel 761 **Automated Pressure Calibrators**

Selection Guide

Model Features	761-LLP	761-D	761-L	761-LA	761-M	761-MA	761-H	761-HA	761-BP
Pressure Range	-25 to 25 mbar (-10 to 10 inH₂O)	-0.95 to 1 bar (-13.5 to 15 psi)	-0.95 to 7 bar (-13.5 to 100 psi)	0.05 to 8 bar.a (1.2 to 115 psi.a)	-0.90 to 25 bar (-13 to 375 psi)	0.1 to 26 bar.a (1.7 to 390 psi.a)	-0.90 to 40 bar (-13 to 600 psi)	0.1 to 41 bar.a (1.7 to 615 psi.a)	100 to 1200 hPa
Pressure Module 1	-2.5 to 2.5 mbar (-1 to 1 inH ₂ O)	-25 to 25 mbar (-10 to 10 inH₂O)	-0.95 to 2.5 bar (-13.5 to 35 psi)	0.05 to 3.5 bar.a (1.2 to 50 psi.a)	-0.9 to 2.5 bar (-13 to 35 psi)	0.1 to 3.5 bar.a (1.7 to 50 psi.a)	-0.9 to 2.5 bar (-13 to 35 psi)	0.1 to 3.5 bar.a (1.7 to 50 psi.a)	100 to 1200 hPa
Pressure Module 2	-25 to 25 mbar (-10 to 10 inH ₂ O)	-0.95 to 1 bar (-13.5 to 15 psi)	0 to 7 bar (0 to 100 psi)	0.05 to 8 bar.a (1.2 to 115 psi.a)	0 to 25 bar (0 to 375 psi)	0.1 to 26 bar.a (1.7 to 390 psi.a)	0 to 40 bar (0 to 600 psi)	0.1 to 41 bar.a (1.7 to 615 psi.a)	NA
Differential Pressure	•	•							
Gauge Pressure	•	•	•	•	•	•	•	•	
Absolute Pressure				•		•		•	•
Barometric Pressure				•		•		•	•
Temperature Compensated	•	•	•	•	•	•	•	•	•
Built-in Electrial Pump	•	•	•	•	•	•	•	•	•
Built-in Filter	•	•	•	•	•	•	•	•	•
Built-in Liquid Trap	•	•	•	•	•	•	•	•	•
Source 0 to 22mA	•	•	•	•	•	•	•	•	•
Measure mA or V	•	•	•	•	•	•	•	•	•
Measure external pressure module	•	•	•	•	•	•	•	•	•
24V Loop power	•	•	•	•	•	•	•	•	•
Pressure switch test	•	•	•	•	•	•	•	•	•
HART Communication	•	•	•	•	•	•	•	•	•
Documenting	•	•	•	•	•	•	•	•	•



Additel 761 Automated Pressure Calibrators



- Fully automated pressure calibrator with built-in pressure generator / controller to as high as 600 psi (40 bar) or as low as 0.01 Pa (0.00004 inH₂O)
- 0.02%FS accuracy
- Dual pressure modules
- Built-in filter and liquid trap with venting system prevents contamination of the calibrator
- Portable (12.4 lb)

OVERVIEW

With a built-in high performance electronic pump and precision pressure controller, the 761 series portable automated pressure calibrators provide a turnkey solution for calibration of gauges, transmitters, and switches both in the field and in the laboratory. In a portable package, this calibrator can automatically generate pressures from 90% vacuum to 600 psi (40 bar) with 0.005% FS pressure control stability and 0.02% FS accuracy. To improve the calibrator accuracy, two pressure modules with differing ranges are built-in and integrated with the internal pump and controller.

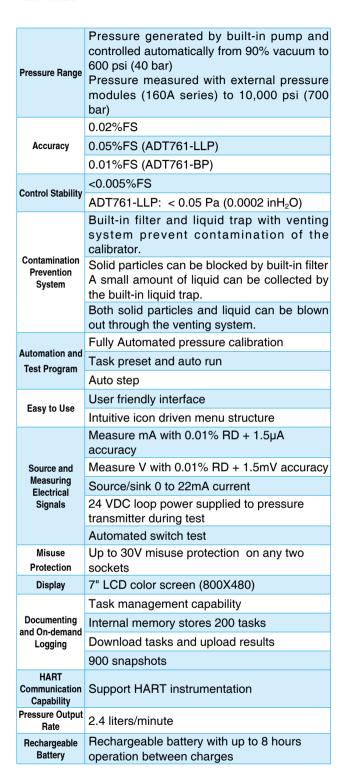
The 761-LLP is specially designed for low pressure calibration, and pressures can be set to as low as 0.01 Pa (0.00004 inH2O) with a control stability better than 0.05 Pa (0.0002 inH₂O).

The 761-BP is designed for barometric gauge calibration. With a quartz pressure sensor, the accuracy of 761-BP can achieve 0.01%FS accuracy.

With optional external pressure modules (160A series), the 761 can measure pressures up to 10,000 psi (700 bar) with 0.02%FS accuracy. In addition to the pressure generation, control, and measurement capabilities, the 761 also features HART communication capability, supplies 24V loop power, and reads the current or voltage produced by the pressure transducers. The 761 is a state of the art automated pressure calibrator which brings automated pressure calibration to the field.

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FEATURES





Leak Testing	Apply leak test to an external pressure system to determine the magnitude of pressure variations due to leaks			
Pipeline Protection	Special design the pipeline layout to avoid possible blockage and leakage			
Portable	Only 12.4 lb			
Multi Lingual	English, German, French, Italian, Spanish, Portuguese, Simplified Chinese			
Interface	(Traditional Chinese, Japanese and Russian are available per request)			
ISO17025	ISO17025 accredited calibration with data (included)			
	Pipeline Protection Portable Multi Lingual Interface			



Addite

SPECIFICATIONS

ADT761-LLP: < 0.05 Pa (0.0002 inH ₂ O) ADT761-LLP: < 0.05 Pa (0.0002 inH ₂ O) ADT761-LM/H/LA/MA/HA: 1. One ADT100-761 Hose Test Kit with quick connector 1/8 BSP Female on calibrator 2. Two 1/4NPT (or 1/2NPT, 1/4BSP, 1/2BSP, M20×1.5) female hand-tight connectors on the external pressure manifold ADT761-LLP/BP: Stainless steel hose barb fitting External Pressure Module Connection Electrical Connection Documenting and On-demand Logging Download tasks and upload results 7" LCD color screen (800×480) Display Tate: 5 readings per second Resolution: 4, 5 or 6 digit, user selectable Pa, kPa, MPa, psi, bar, mbar, inH ₂ O@4°C, inH ₂ O@4°C, inH ₂ O@20°C, kgf/cm², and hPa (ADT761-BP) Pump Life Power Battery: Rechargeable Li-ion Polymer battery (included) Li-Battery working time: ~8 hours External Power: 110/220V Power adapter (DC 27 V) (Included) Operating temperature: 32°F to 122°F (0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing European Compliance Escasa (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200					
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ADT761-L/M/H/LA/MA/HA: 1. One ADT100-761 Hose Test Kit with quick connector 1/8 BSP Female on calibrator 2. Two 1/4NPT(or 1/2NPT, 1/4BSP, 1/2BSP, M20x1.5) female hand-tight connectors on the external pressure manifold ADT761-LLP/BP: Stainless steel hose barb fitting External Pressure Module Connection Electrical Connection Electrical Connection Connection Documenting Task management capability Internal memory stores 200 tasks Download tasks and upload results 7" LCD color screen (800x480) Display Pa, kPa, MPa, psi, bar, mbar, inH2O@4°C, inH2O@20°C, mmH2O@20°C,	Control Stability				
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Resolution: 4, 5 or 6 digit, user selectable Pa, kPa, MPa, psi, bar, mbar, inH ₂ O@4°C, mH ₂ O@4°C, inH ₂ O@20°C, mmH ₂ O@20°C, inHg@0°C, mmH ₂ O@20°C, kgf/cm², and hPa (ADT761-BP) Pump Life Power Battery: Rechargeable Li-ion Polymer battery (included) Li-Battery working time: ~8 hours Recharge time: ~3 hours External Power: 110/220V Power adapter (DC 27 V) (Included) Operating temperature: 32°F to 122°F (0°C to 50°C) Compensated Temperature: 32°F to 122°F (0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing European Compliance RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits		7" LCD color screen (800×480)			
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120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits		Compensated Temperature: 32°F to 122°F			
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Communication 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits	Specification European	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked			
Stop bit: 1 Bit, 2 Bits	Specification European	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed)			
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Address: from 1 to 121	Specification European	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200			
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Dimension 11.65 X 7.32 X 7.09 in (296 X186 X180 mm)	Specification European Compliance	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits			
Weight 12.4 to 16.3 lb (5.6 to 7.4 kg)	European Compliance	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits Address: from 1 to 121			
Warranty 18 months	European Compliance Communication Dimension	(0°C to 50°C) Storage temperature: -20°C to 60°C (-4°F to 120°F) Humidity: <90%, non-condensing CE Marked RS232 (DB9/F, environmentally sealed) Baud rate: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Data length: 7 Bits, 8 Bits Stop bit: 1 Bit, 2 Bits Address: from 1 to 121 11.65 X 7.32 X 7.09 in (296 X186 X180 mm)			



Task Manual



Built-in User's Manual



Pressure gauge / transmitter / switch calibration



Addite

Additel 761 Automated Pressure Calibrators

SPECIFICATIONS

Pressure Ranges

T		B B	Pressure Module 1		Pressure Module 2	
Туре	Model	Pressure Range	Range	Accuracy ^[1]	Range	Accuracy ^[1]
Low/Differential	ADT761-LLP	-25 to 25 mbar (-10 to 10 inH ₂ O)	-2.5 to 2.5 mbar (-1 to 1 inH₂O)	0.05%FS ^[2]	-25 to 25 mbar (-10 to 10 inH₂O)	0.05%FS ^[2]
Pressure	ADT761-D	-0.95 to 1 bar (-13.5 to 15 psi)	-25 to 25 mbar (-10 to 10 inH₂O)	0.05%FS ^[2]	-0.95 to 1 bar (-13.5 to 15 psi)	0.02%FS
	ADT761-L	-0.95 to 7 bar (-13.5 to 100 psi)	-0.95 to 2.5 bar (-13.5 to 35 psi)	0.02%FS	0 to 7 bar (0 to 100 psi)	0.02%FS
Gauge Pressure	ADT761-M	-0.90 to 25 bar (-13 to 375 psi)	-0.9 to 2.5 bar (-13 to 35 psi)	0.02%FS	0 to 25 bar (0 to 375 psi)	0.02%FS
	ADT761-H	-0.90 to 40 bar (-13 to 600 psi)	-0.9 to 2.5 bar (-13 to 35 psi)	0.02%FS	0 to 40 bar (0 to 600 psi)	0.02%FS
	ADT761-LA	-0.95 to 7 bar (-13.5 to 100 psi)	-0.95 to 2.5 bar (-13.5 to 35 psi)	0.02%FS	-0.95 to 7 bar (-13.5 to 100 psi)	0.02%FS
		0.05 to 8 bar.a (1.2 to 115 psi.a)	0.05 to 3.5 bar.a (1.2 to 50 psi.a)	0.03%FS	0.05 to 8 bar.a (1.2 to 115 psi.a)	0.025%FS
Gauge/Absolute	ADT761-MA	-0.90 to 25 bar (-13 to 375 psi)	-0.9 to 2.5 bar (-13 to 35 psi)	0.02%FS	-0.9 to 25 bar (-13 to 375 psi)	0.02%FS
Pressure		0.1 to 26 bar.a (1.7 to 390 psi.a)	0.1 to 3.5 bar.a (1.7 to 50 psi.a)	0.03%FS	0.1 to 26 bar.a (1.7 to 390 psi.a)	0.025%FS
	ADT761-HA	-0.90 to 40 bar (-13 to 600 psi)	-0.9 to 2.5 bar (-13 to 35 psi)	0.02%FS	-0.9 to 40 bar (-13 to 600 psi)	0.02%FS
		0.1 to 41 bar.a (1.7 to 615 psi.a)	0.1 to 3.5 bar.a (1.7 to 50 psi.a)	0.03%FS	0.1 to 41 bar.a (1.7 to 615 psi.a)	0.025%FS
Barometric pressure	ADT761-BP	100 to 1,200 hPa	100 to 1,200 hPa	0.01%FS	NA	NA

^[1] One year accuracy (including 1 year stability). FS specification applies to the span of the module range.

■ Electrical Measurement and Source Accuracy

	Range	Resolution	Accuracy	
Voltage Measurement	±30.0000V	0.1mV	±(0.01%RD + 1.5mV)	
Current Measurement	±30.0000mA	0.1μΑ	±(0.01%RD + 1.5μA)	
Current Source	0.000 to 22.000mA	1μΑ	±(0.02%RD + 2.2μA)	
Switch Test	If the switch has detective Voltage, the range is from 3V to 24V			
DC 24V output	24V ± 0.5V, max: 50mA			

 $^{[2] \ 0.05\% \} FS \ accuracy \ (including \ 6 \ months \ stability). \ One \ year \ accuracy \ is \ 0.05\% \ FS \ calibration \ accuracy \ combined \ with \ 0.05\% \ FS \ one \ year \ stability.$

^{*} Additel 761 calibrators support 160A series intelligent digital pressure modules that are available for gauge, vacuum and absolute pressure from -15 psi to 10,000 psi (-1 bar to 700 bar). Accuracy from 0.02%FS includes operation over 14°F to 122°F (-10°C to 50°C), one year stability and calibration uncertainty. For detailed specification refer to 160A series pressure modules datasheet.

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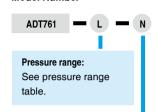
Additel 761

Automated Pressure Calibrators



ORDERING INFORMATION

Model Number



Pressure port type on External Pressure Manifold:

N - 1/4NPT female

N2 - 1/2NPT female

B - 1/4BSP female

B2 - 1/2BSP female

M - M20X1.5 female



Accessories (included)					
External Pressure Manifold (ADT106) (Except 761-LLP)	1 pc				
9818 110V/220V external Power adapter	1 pc				
9723 Chargeable Li-ion battery	1 pc				
9022 Test Leads for calibrator	2 sets (4 pcs)	-			
9020 Short circuit cable	1 set (2 pcs)				
9907 Carrying case for 761 calibrator and accessory	1 pc				
9060 Pressure module connection cable	1 pc				
9240 DP gauge holder, rubber (Only for ADT761-LLP)	1 pc	M			
ADT100-761 (Except 761-LLP)	1 pc + 3 pcs adapters	040			
O-rings(Except 761-LLP)	20 pcs				
Manual	1 pc				
Allen wrench	1 set				
ADT100-761Hose (Except 761-LLP: 2 pcs)	1 pcs				
ISO17025 accredited calibration certificate	1 pc				

* Additel/Land software could be downloaded for free at www.additel.co	mc
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Optional Accessories				
Model Number	Description	Picture		
ADT100-761-N4	Hose Test Kit, 5 feet flexible hose, 0.156" (Ø4mm) tube to 1/4NPT hand-tight quick connector			
ADT100-761-B4	Hose Test Kit, 5 feet flexible hose, 0.156" (Ø4mm) tube to 1/4BSP hand-tight quick connector			
ADT106-N	External Pressure Manifold (with two 1/4NPT hand-tight quick connectors)			
ADT106-B	External Pressure Manifold (with two 1/4BSP hand-tight quick connectors)			
ADT106-M	External Pressure Manifold (with two M20X1.5 hand-tight quick connectors)			
ADT160A	See pg. 51 for more info; connection cable sold separately			
9050	USB to RS232 (DB9/M) Adapter			
9060	Pressure module connection cable			
9510	Additel/Cal task management software			
ADT100-761Hose	ADT761 hose, 5 feet			