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# Additel 762

## Automated Hydraulic Pressure Calibrator



- Automated pressure generation and control to 15,000 psi (1,000 Bar)
- Accuracy to 0.01%FS
- Dual-range manual or auto select
- Control stability 0.005%FS
- Portable - designed for use in the field and in the lab
- Control by optional external pressure modules
- Supports two external pressure modules
- Wi-Fi, LAN, Bluetooth, USB and Ethernet communication
- Full HART field communicator
- HART and PROFIBUS communication
- Data logging and task management
- Patented electric pump technology

### OVERVIEW

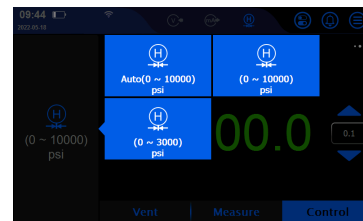
The Additel 762 Automated Pressure Calibrator is unlike any other pressure calibrator on the market. This revolutionary product is a complete turnkey solution for automation of pressure calibration work up to 15,000 PSI.

Designed for use in both the field and the laboratory, the portability and accuracy of this state-of-the-art product will quickly become the favorite go-to calibrator for lab personnel and field technicians alike.

With fully automated support for calibration of pressure transmitters, switches, dial and digital gauges and sensors, including HART/PROFIBUS devices in conjunction with a fully integrated task feature, data collection and Wi-Fi connectivity, we had our customer's needs in mind when designing our most capable pressure calibrator to date.

### Dual-Range Accuracy to 0.01% FS

The ADT762 includes the unique ability to automatically switch between different internal calibrations depending on the current control pressure of the ADT762. Additel provides calibrations unique to each ADT762 for ranges of 0-3,000 PSI (200 Bar) and 0-10,000 PSI (700 Bar) in the GP10K base model and 0-6,000 PSI (400 Bar) and 0-15,000 PSI (1,000 Bar) in the GP15K model. As the calibrator is pressurized, it will automatically select the control and measurement specification based on the specific pressure range. Pressure calibration range selection can be set to “auto” mode so the calibration range is automatically selected by the ADT762 based on the set point pressure, or the calibration range can be manually selected.



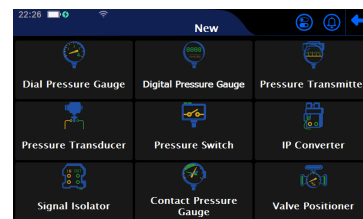
### Built-in Auto-Purge Application

Purging hydraulic calibration systems can be challenging and time consuming. The ADT762 has been designed with an integrated auto-purge system that saves time, money and frustration by completely automating the removal of air from the system. With the push of a button, the ADT762 quickly manages the system purging. This helps to free up time for technicians to attend to other needs.



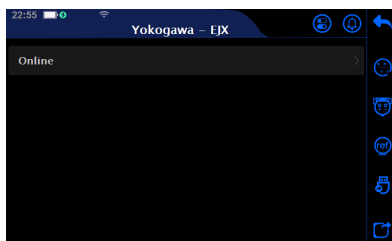
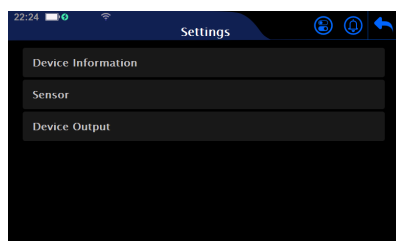
### Documented Task Feature

The powerful documented calibration task application allows users to quickly create and execute tasks without the need for a PC or tablet. The ADT762 automatically analyzes errors, generates test reports, while storing results locally. The Additel 762 can support up to 1000 documented tasks which can be stored and recalled at any time to help save time and money.



### Dual-Mode HART Communication

HART pressure transmitters can be directly maintained and calibrated without any other equipment or tools. The ADT762 provides an automatic HART calibration mode as well as a manual mode. This dual-mode HART communication function not only provides an efficient and convenient interoperability mode for DUT, but also supports access to a fully HART capable calibrator.



## Pressure Specifications

Model	ADT762 Automated Hydraulic Pressure Calibrator	
Specification		
Pressure Range	15-10,000 psi (1-700 Bar) and 15-15,000 psi (1-1,000 Bar)	
Range Selection	Manual 3K psi, 10K psi or auto-range for the GP10K and Manual 6k psi, 15K psi or auto-range for the GP15K	
Accuracy	GP15K: 0~15,000 psi, 0.01%FS <sup>[2]</sup> GP15K: 0~6,000 psi, 0.01%FS <sup>[2]</sup>	GP15K: 0~15,000 psi, 0.02%FS <sup>[2]</sup> GP15K: 0~6,000 psi, 0.02%FS <sup>[2]</sup>
	GP10K: 0~10,000 psi, 0.01%FS <sup>[2]</sup> GP10K: 0~3,000 psi, 0.01%FS <sup>[2]</sup>	GP10K: 0~10,000 psi, 0.02%FS <sup>[2]</sup> GP10K: 0~3,000 psi, 0.02%FS <sup>[2]</sup>
Resolution	7 digits	6 digits
Measurement Units	Pa, hPa, kPa, mPa, bar, mbar, psi, mmHg@0°C, cmHg@0°C, mHg@0°C, inHg@0°C, inH2O@4°C, mmH2O@4°C, cmH2O@4°C, mH2O@4°C, mmH2O@20°C, cmH2O@20°C, mH2O@20°C, inH2O@20°C, inH2O@68°F, kgf/cm2, mtorr, torr, lb/ft2, tsi, custom	
Maximum External Load Capacity	Max: 80 ml@60 MPa, 60 ml@100 MPa, 50 ml recommend	
Reservoir	Max: 350 ml, built-in filter	
Control Stability <sup>[1]</sup>	0.005%FS from 100 to 15,000 psi	
Stability Duration	> 5 min	
Pressure Module	Built-in one module with dual range	
External Control Pressure Module	See the following "External Control Pressure Module Specification and Compatibility" table	
External Measurement Pressure Module	All ADT161 pressure modules	

[1] Control Stability is based on the range selection or external module

[2] Pressure range capabilities are dependent on model. See ordering info.

## Electrical Specifications

Model	Range	Resolution	Accuracy	Note
Specification				
mA Measure	-25 to 25 mA	0.1 $\mu$ A	$\pm (0.008\%RD + 1.0 \mu A)$	Impedance <10 $\Omega$
	-50 to 50 mA	0.1 $\mu$ A	$\pm (0.008\%RD + 2.0 \mu A)$	
V Measure	-300 to 300 mV	1 $\mu$ V	$\pm (0.008\%RD + 6 \mu V)$	Impedance <1 G $\Omega$
V Measure (Auto-ranging)	-5 to 5 V	20 $\mu$ V	$\pm (0.008\%RD + 100 \mu V)$	Impedance >1 M $\Omega$
	-12 to 12 V	100 $\mu$ V	$\pm (0.008\%RD + 320 \mu V)$	
	-30 to 30 V	100 $\mu$ V	$\pm (0.008\%RD + 600 \mu V)$	
Loop Power Source	24 V	N/A	$\pm 1$ V	50 mA (Max Loading)
mA Source	0 to 2.5 mA or 2.5 to 25 mA	0-2.5 mA: 0.05 $\mu$ A 0-25 mA: 0.5 $\mu$ A	0-2.5 mA: 0.008%RD + 0.2 $\mu$ A 0-25 mA: 0.008%RD + 1.0 $\mu$ A	20 mA @ 1 K $\Omega$
Power Source	16 to 30 V	1 V	$\pm 1$ V	70 mA (Max Loading)
V Source	0 to 16 V	0.25 mV	0.008%RD + 500 $\mu$ V	
Pressure Switch	Mechanical Switch, Live Mechanical Switch, NPN Switch, PNP Switch	N/A	N/A	Response time<10 ms. If the switch is live, voltage range will be (3-30) V
Temperature Compensation	18 °C to 28°C			
Temperature Coefficient	Outside of 18 °C to 28 °C: $<\pm 0.0005\%RD + 0.00005\%FS/^{\circ}C$			
Misuse Protection	Up to 30 V on any two sockets			
Pressure Switch Test	●			
HART / PROFIBUS PA	●			

● Supported



## External Control Pressure Module Specification and Compatibility

Specification Model	Pressure Range		Accuracy	Pressure Type	Media
	(psi)	(bar)			
ADT161-01-GPXX for 0.01%FS	1,000	70	0.01% FS	Gauge	G,L
	1,500	100	0.01% FS	Gauge	G,L
	2,000	140	0.01% FS	Gauge	G,L
	3,000	200	0.01% FS	Gauge	G,L
	5,000	350	0.01% FS	Gauge	G,L
	10,000	700	0.01% FS	Gauge	G,L
	15,000	1000	0.01% FS	Gauge	G,L
ADT161-02-GPXX for 0.02%FS	1,000	70	0.02% FS	Gauge	G,L
	1,500	100	0.02% FS	Gauge	G,L
	2,000	140	0.02% FS	Gauge	G,L
	3,000	200	0.02% FS	Gauge	G,L
	5,000	350	0.02% FS	Gauge	G,L
	10,000	700	0.02% FS	Gauge	G,L
	15,000	1000	0.02% FS	Gauge	G,L



## General Specifications

Specification	Description
User Interface	Color touch screen and keypad operation
Display	7" TFT touch screen 800 x 480 color
Enclosure IP Rating	IP31
Power	Dedicated lithium battery or power adapter
Battery	Rechargeable Li-Ion battery, typically 12 hours of operation, less than 5 hours recharge.
Weight	28 lbs (12.8 kg) without media
Media	Sebacate oil
Size	11.81 x 8.66 x 7.56 in (300 x 220 x 192 mm)
Communications	USB, LAN, Bluetooth, Wi-Fi and Ethernet
HART Communication	Read, configure and calibrate HART devices - DD files updated periodically
Data Storage	> 8 GB
Data Logging	Up to 1,000,000 readings (data and time stamped)
Task Documentation	Up to 1,000 tasks can be stored with data
Automation Functions	Switch test, auto step, leak test
User Interface Localization	English, German, French, Italian, Spanish, Portuguese, Chinese, Japanese, and Russian
Pump Life	> 1,000,000 cycles
Environmental Specifications	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
Certification	ISO 17025 accredited certificate of calibration with NIST-traceable data
Compliance	CE
Software Compatibility	ACal, Additel Land and Additel Link for access via mobile application
Warranty	1 year
Hose & Filter End of Life	The estimated End of Life (EOL) expectancy for all accessory hoses and filters (pneumatic and hydraulic) is approximately 10 years and should be replaced at the first sign of wear or damage.

## ORDERING INFORMATION

### Model Number

ADT762 — 01 — GP15K — N

#### Accuracy:

01 = 0.01% of full span

02 = 0.02% of full span

#### Range:

GP10K = 10,000 psi

GP15K = 15,000 psi

#### Pressure port type:

N - 1/4 NPT female
















N2 - 1/2 NPT female





B - 1/4 BSP female

B2 - 1/2 BSP female

M - M20X1.5 female



Accessories (included)		
Model number	Quantity	Picture
9022 Test Leads	2 sets (4 pcs)	
USB Cable	1 pc	
9725 Rechargeable Li-ion battery	1 pc	
9818 110V/220V external Power adapter	1 pc	
Funnel	1 pc	
ADT100-762Hose High pressure hose	1 pc	
Small accessory case (For cables and adaptors)	1 pc	
Transportation cap	1 pc	
9241 Replacement gas filled accumulator for ADT762 and ADT793	1 pc	
9907-762 Carrying case	1 pc	
Sebacate oil (500ml)	1 bottle	
O rings for liquid storage tank 3.5*1.2-NBR70	5 pcs	
O rings for right angle connector 5*1.5-NBR70	5 pcs	
9060 Pressure module connection cable	1 pc	
ADT100-762-X	1 pc	
ISO17025 accredited calibration certificate	1 pc	

Optional Accessories		
Model number	Description	Picture
ADT107-X-KIT	Includes dual ports manifold (15,000 psi), and zero return communication cable	
ADT161	Pressure modules see pg. 4	
ADT100-762-X	ADT762 right angle connector	
9241	Replacement gas filled accumulator for ADT762 and ADT793	
9201	Sebacate oil (1-Liter)	