Additel 227, 227Ex Documenting Multifunction Process Calibrator



- Sourcing, Simulating and Measuring Pressure, Temperature and Electrical Signals
- Built-in Full Hart Communicator (ADT227-HART)
- Built-in Barometer
- Intrinsically Safe Models Available (Ex)
- Large Smartphone Like Touchscreen User Experience
- USB Type-C and Bluetooth Communications
- IP67 Rated

•

Pressure / Process Calibration Equipment

- High Voltage Mesurement Capability (300V AC)
- True RMS Voltage Meter Capability
- Dual Channel Pressure Module Ports
- High Static Differential Pressure Measurement 0.002% FS
- ISO 17025-accredited Calibration w/data Included



OVERVIEW

Additel's new Multi-functional Documenting Process Calibrator series takes portability, functionality, and accuracy to a whole new level and packages it with an intuitive and easy to use color touchscreen display. This series includes an advanced documenting pressure calibrator (ADT227) and an advanced documentation process calibrator with a builtin HART communicator (ADT227-HART). Additionally, each calibrator has an ATEX certified intrinsically safe option (ADT227Ex) allowing you to perform calibration in the harshest of environments. We're confident these new tools will not only meet your calibration requirements but will make metrology simple for you!

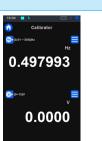
Features

Easy-to-use Cellphone Like Interface

The ADT227 series brings an all new user interface to the world of process calibrators. With a menu driven interface and a small size/weight, the ADT227 is the industry's smallest advanced multifunctional process calibrator with an intrinsically safe version to boot (ADT227Ex). It adopts advanced human hand engineering design for the most convenient field handheld process calibrator available.

The ADT227 has been developed with a powerful embedded operating system which solves common problems of other designs including slow response, cumbersome key operation, high power consumption and overall slow processing.





Accuracy

Additel's new and improved ADT227 series provides much improved accuracies including an electrical accuracy of 0.005% RD + 0.005% FS, high-static differential pressure mode accuracy to 0.002% FS and across the board improvements in temperature measurement accuracies.

Corporate Headquarters 2900 Saturn St #B Brea, CA 92821, USA



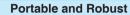
Metrology Made Simple

Features

Thermocouple Measurement Performance

The ADT227 series deliveres highly improved thermocouple measurement capabilities by vastly improving the cold Jucntion compensation (CJC) specifications and a much improved stabalization time.

100.036



The demands of remote calibration work can be challenging. The ADT227series is lightweight and highly portable and utilizes an advanced color LCD screen to help ensure you can easily see, even in the (Ex) intrinsically safe versions.

All models in the ADT227 family have been designed with ruggedness and dependability in mind and meet IP67 standards with a 1-meter drop test, 4G vibration, xenon exposure and 130g steel ball drop testing of the display.

Other environmental conditions have also been considered, such as temperature and humidity. To combat these external elements, Additel has designed a unique internal circuit design and process technology to allow for the utmost confidence in your critical calibration and measurement work.

Intrinsically Safe Option

The Additel 227Ex series calibrators have passed the most stringent testing by certified organizations to acquire intrinsically safe certificates, ATEX, IECEX, CSA and UKCA. The explosion-proof grade (Ex ia IIC T4 Ga), can be widely used in potentially explosive environments, such as oil and gas platforms, oil refineries, chemical and petrochemical plants, pharmaceutical industries, energy and gas processing industries.

Each intrinsically safe calibrator has an advance transflective color LCD display which has enhanced visibility when viewed in direct sunlight. No matter where your work takes you, these calibrators are up to the task.

Voltage Meter (RMS)

The Additel 227 non-Ex version is equipped with "true effective value" RMS measuring function, which can measure the RMS of various waveforms with no need to consider distortion or waveform parameters and different errors caused by different waveforms

Automated Tasks for Paperless Calibration Management

Full HART Communicaton (ADT227-HAR&ADT227Ex-HART)

Additel 227 Series Calibrators come with a power documenting calibration task application which provides a turnkey solution for automation and paperless calibration management.

Tasks are easily created for temperature, pressure, flow and loop instruments. Up to 10,000 documented tasks can be stored in the extensive on-board memory.

Many tasks, when executed, are fully automated in data collection and performance validation, such as pass/fail and hysteresis calculations. All information can be integrated into Additel's ACal software for additional calibration management.

TT-001 type Cased 1/1 tst Puste 2/3 tope Cased 1

: 0000

100.00



The built-in full HART communicator will work with most HART or Profibus transmitters for on-line or off-line configuration and testing. The ADTADT227-HART contains an extensive DD library to meet the needs of your smart transmitter. Our DD library is updated on a regular basis and at no additional cost.

Corporate Headquarters 2900 Saturn St #B Brea, CA 92821, USA



Features

19:22
1
Image: Construction of the construc

The onboard applications provide a useful selection of features including HART communicator, high static differential pressure mode, pressure leak test, safety valve test, analog transmitter calibration, unit converter, thermal calculator, and snapshots to name a few.

High static differential pressure mode uses two sensors, unique calculation technology to achieve a differential pressure measurement to 0.002% FS at high static pressures. The leak test will automatically calculate the pressure drop to determine a leak condition. The safety valve test is a specialized task which captures the exact pressure release point by taking 10 readings per second during a valve crack test.

You will find this and much more as we continue to develop new apps at Additel.

Record pressure, temperature and electrical signals readings over a long period. Recorded values can be displayed numerically or graphically to identify trending. On-board memory can store up to 10,000 readings or 1,000 readings and is easily exported to Additel application software. Each log session is easily configured at a set interval and each reading is provided with a date and time stamp





Connectivity & Battery

Data Logger

Users can remotely connect mobile devices to the ADT227 via Bluetooth and Wi-Fi communication with an unobstructed distance up 20 meters. The included USB type-C comm port and cable provide a hard wired communication option as well as charging for the removeable Li-ion battery, which provides up to 35 hours of run time.

Time Saving Features

In addition to all the great features mentioned above, the ADT227series is loaded with time saving features like our builtin pressure and temperature converter, thermal calculator, wiring diagram guide for assisting with electrical connections, a built-in diagnostic center including intelligent alarm messaging and a real time error report and comprehensive selftesting to help our customers get the very most out of their investment in Additel calibration tools.



SPECIFICATIONS

Electrical Specification

Source Accuracy								
Creations		ADT227	7	ADT227Ex				
Specifications	Range	Resolution	Accuracy	Range	Resolution	Accuracy		
Voltage DC	0 to 15 V	0.1 mV	0.005%RDG+0.005%FS	0 to 10.5 V	0.1 mV	0.01%RDG+0.005%FS		
Current DC	0 to 25 mA	0.1 uA	0.01%RDG+0.005%FS	0 to 25 mA	0.1 uA	0.01%RDG+0.005%FS		
Resistance	0 to 400 Ω	1 mΩ	0.005%RDG+0.005%FS	0 to 400 Ω	1 mΩ	0.01%RDG+0.005%FS		
nesistatice	0 to 4000 Ω	10 mΩ	0.01%RDG+0.005%FS	0 to 4000 Ω	10 mΩ	0.01%RDG+0.005%FS		
Frequency	0.01 to 50000.0 Hz	Auto range, 6-digit	0.002%RDG+2 on last digit	0.01 to 50000.0 Hz	Auto range, 6-digit	0.002%RDG+2 on last digit		
Voltage mV (TC)	-10 to 75 mV	0.1 uV	0.0008%RDG + 0.004%FS	-10 to 75 mV	0.1 uV	0.01%RDG + 0.004%FS		
Pulse	0 to 9999999	1	N/A	0 to 9999999	1	N/A		
	Optional rising edge an	d falling edg	e, minimum threshold voltage:	2.5V				
Loop power (max 25mA)	24 V	N/A	±1 V	20 V	N/A	± 10%		

•

03

Corporate Headquarters 2900 Saturn St #B Brea, CA 92821, USA



leasurement	A	ccuracy	(Cont.	
-------------	---	---------	---	-------	--

Specifications		ADT227			ADT227E	x			
opecifications	Range	Resolution	Accuracy	Range	Resolution	Accuracy			
	-300 to 300 mV	1 µV	0.005% RDG + 0.005% FS	-300 to 300 mV	1µV	0.01% RDG + 0.005% F			
Voltage DC	-30 to 30 V	0.1 mV	0.005% RDG + 0.005% FS	-30 to 30 V	0.1 mV	0.01% RDG + 0.005% F			
Vollage DC	Temperature Coefficie	nt: ±5 ppm FS	S/°C (-10°C to 10°C and 30°C	to 50°C)					
	Impedance: -300 mV t -30 V to 3	o 300 mV = > 0 V = >1 MΩ	100 MΩ						
	-3 to 3 V	0.1 mV	0.05% RDG + 0.01% FS						
	-30 to 30 V	1 mV	0.05% RDG + 0.01% FS						
	-300 to 300 V	10 mV	0.05% RDG + 0.01% FS						
DC High Voltage	Temperature coefficier (-10°C to 10°C and 30		FS/°C		N/A				
	Maximum input voltag	, í	C61010 300V CATII						
	Commong mode rejec	tion: >100 dB	(at 50 or 60 Hz)						
	Impedance: > 4 M Ω , D	C coupling							
	3V (40 to 500 Hz)	0.1 mV	0.5% RDG + 0.05% FS						
	30V (40 to 500 Hz)	1 mV	0.5% RDG + 0.05% FS						
	300V (40 to 500 Hz)	10 mV	0.5% RDG + 0.05% FS						
AC High Voltage	Temperature coefficier (-10°C to 10°C and 30		₀ RD + 0.0025% FS) /°C		N/A				
	Maximum input voltage		C61010 300V CATII						
	9% to 100% of range is	s suitable for t	the above accuracy indicators						
	Impedance: >4 MΩ, <1	00pF, AC cou	upling						
0	-30 to 30 mA	0.1 µA	0.01% RDG + 0.005% FS	-30 to 30 mA	0.1 µA	0.01% RDG + 0.005% F			
Current DC	Temperature Coefficie	nt: ±5ppm FS	/°C (-10°C to 10°C and 30°C t	to 50°C), Impedance: < 40 Ω					
	0 to 400 Ω	1 mΩ	0.005% RDG + 0.005% FS	0 to 400 Ω	1 mΩ	0.01% RDG + 0.005% F			
	0 to 4000 Ω	10 mΩ	0.01% RDG + 0.005% FS	0 to 4000 Ω	10 mΩ	0.01% RDG + 0.005% F			
Resistance (4-Wire)	Temperature coeficien	Temperature coeficient: ±5 ppm FS/°C (-10°C to 10°C and 30°C to 50°C)							
. ,	2-Wire + 50 mΩ, 3-wire+ 10 mΩ								
	Excitation current: 0.25	5 mA							
	-10 to 75 mV	0.1 µV	0.008% RDG + 0.004% FS	-10 to 75 mV	0.1 µV	0.01% RDG + 0.004% F			
Voltage mV (TC)	Temperature Coefficie	nt: ±5ppm FS	/°C (-10°C to 10°C and 30°C t	o 50°C)					
	Impedance: >100 MΩ								
	0.01 to 50000 Hz	Auto range, 6-digit	0.002% RDG + 2 on last digit	0.01 to 50000 Hz	Auto range, 6-digit	0.002% RDG + 2 on las digit			
Frequency	Minimum threshold vol					· · · · · · · · · · · · · · · · · · ·			
	Supported units: Hz, k	Hz, MHz, CPI	M, CPH, s, ms, μs						
	0 to 9999999	1	N/A	0 to 9999999	1	N/A			
Pulse	Optional rising edge and falling edge, minimum threshold voltage: 2.5V								
Switch	Supports dry or wat su	uitabaa Valtar	ge range of 3 to 30 V. Respons	$r_{\rm c} = 10 {\rm ms}$					



Genreal Specification

•						
Specifications	ADT227	ADT227Ex				
Operating Temperature	-10°C to 50°C	-10°C to 50°C				
Specification guaranteed temperature range	10°C to 30°C	10°C to 30°C				
Storage Temperature	-20°C to 70°C	-20°C to 70°C				
Humidity	<95%, non-condensing	<95%, non-condensing				
Power supply	6600mAh, 23.8Wh lithium battery, charging time 4~6 hours, battery pack can be charged independently	4000mAh 14.4Wh Explosion-proof lithium battery packcharging time 6~8 hours, battery pack can be charged independently				
User interface	Icon drive menus	Icon driven menus with navigation buttons				
Ports protection voltage	50V max	30V max				
Display	5.0 inch 480 x 800 mm TFT LCD capacitive screen	4.4 inch 640 x 480 mm color display capacitive screen				
Maximum altitude		3000 meters				
European Compliance		CE Mark				
Electrical Connection	Ø4mm sockets and f	at mini-jack thermocouple socket				
Size	6.97" x 4.13" x 2.04	" (177 mm x 105 mm x 52 mm)				
Weight	1.6 lb (0.7 kg)	1.65 lb (0.75Kg)				
Battery	Rechargeable	e Li-ion battery (included)				
Battery Life	Typically 16 hours	Typically 35 hours				
Battery Charge	110V/220V external power adapter included. Battery ca	n be charged external to the unit. Typically charge time is 6-8 hours.				
External pressure module	Dual channel serial plug, ca	in connect two digital pressure modules				
Warm-up time	Full specification performance i	s achieved after a 10 minute warm-up time.				
ROHS compliant	Rohs II Directive 2011/65/EU, EN50581:2012					
Display rate	3 rea	dings per second				
Environmental parameter measurement	Built-in barometer sensor (user-calibrated)					
IP protection level	IP67, 1 meter drop test					
Communication	Isolate USB-TY	PEC (slave), Bluetooth BLE				
Calibration	ISO 17025 acc	redited calibration with data				

Pressure Specification

Pressure Specification (ADT227 & ADT227Ex)

The ADT161 and ADT161Ex series Intelligent Digital Pressure Modules are available for gauge, vacuum and absolute pressure from -15 psi to 60,000 psi (-1 bar to 4200 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 specifications, please refer to the pressure modules datasheet.



Temperature Specification

Thermocouple Measuremen	t and Source	Accuracy
-------------------------	--------------	----------

	,	and obuice Act	ADT227	ADT227Ex				
			ADIZZI	ACCUracy (°C)				
Туре	Standard	Temperatu	re Range (°C)	Accuracy (°C) Measure / Source	Standard	Temperatur	e Range (°C)	Measure / Source
		-50~0 0.76			-50~100	0.77		
S	S IEC 584	-50 to 1768	0~100	0.56	IEC 584	-50 to 1768	100~1000	0.42
			100~1768	0.44	-		1000~1768	0.47
			-50~0	0.82			-50~0	0.82
R	IEC 584	-50 to 1768	0~200	0.57	IEC 584	-50 to 1768	0~200	0.57
			200~1768	0.38			200~1768	0.42
			200~300	1.51			200~300	1.51
_	150 50 1		300~500	1.00			300~500	1.00
В	IEC 584	0 to 1820	500~800	0.62	IEC 584	0 to 1820	500~800	0.62
			800~1820	0.43			800~1820	0.43
			-250 to -200	0.72			-250 to -200	0.75
K		070 += 4070	-200 to -100	0.23		070 += 4070	-200 to -100	0.24
к	IEC 584	-270 to 1372	-100 to 600	0.12	IEC 584	-270 to 1372	-100 to 600	0.13
			600 to 1372	0.22			600 to 1372	0.25
			-250 to -200	1.14		-270 to 1300	-250 to -200	1.17
Ν	IEC 584	-270 to 1300	-200 to -100	0.33	IEC 584		-200 to -100	0.34
			-100 to 1300	0.19			-100 to 1300	0.22
		-270 to 1000	-250~-200	0.39		-270 to 1000	-250~-200	0.41
Е	IEC 584		-200~-100	0.15	IEC 584		-200~-100	0.15
E IEC 304	120 304	-270 10 1000	-100~700	0.09	120 304	-270101000	-100~700	0.10
			700~1000	0.12			700~1000	0.14
		-210~1200	-210~-100	0.19			-210~-100	0.20
J	IEC 584		-100~700	0.10	IEC 584	-210~1200	-100~700	0.11
			700~1200	0.15			700~1200	0.17
		-270 to 400	-250~-100	0.55	IEC 584	-270 to 400	-250~-100	0.57
т	IEC 584		-100~0	0.12			-100~0	0.23
			0~400	0.08			0~400	0.08
		0 to 2315	0 to 1000	0.24		0 to 2315	0 to 1000	0.26
С	ASTM E988		1000 to 1800	0.40	ASTM E988		1000 to 1800	0.45
			1800 to 2315	0.65			1800 to 2315	0.73
			0~100	0.31			0~100	0.31
D	ASTM E988	0~2315	100~1200	0.25	ASTM E988	0~2315	100~1200	0.27
			1200~2000	0.42	-		1200~2000	0.47
			2000~2315	0.65			2000~2315	0.74
			50~100	0.90	-		50~100	0.90
			100~200	0.57		0.1.00/5	100~200	0.57
G	ASTM E1751	0 to 2315	200~400	0.35	ASTM E1751	0 to 2315	200~400	0.36
			400~1500	0.25	-		400~1500	0.27
			1500~2315	0.49			1500~2315	0.55
	DINIAGTAO	000 + 000	-200 to -100	0.11	DINIACTAC	000 + 000	-200 to -100	0.12
L	DIN43710	-200 to 900	-100 to 400	0.08	DIN43710	-200 to 900	-100 to 400	0.09
			400 to 900	0.10			400 to 900	0.12
U	DIN43710	-200 to 600	-200 to 0 0 to 600	0.21	DIN43710	-200 to 600	-200 to 0 0 to 600	0.21 0.09
			0.00.000	0.08			0.00.000	0.09

Note: Internal CJC is ±0.15°C (-10°C to 50°C ambient temperature) Accuracy with external cold junction only, for internal cold junction add 0.15 \degree (k=2)



RTD Measurement and Source Accuracy

Measure and Simulate	-		Accuracy (°C)			
Measure and Simulate	· ·	emperature Range (°C)	ADT227	ADT227Ex		
		-200~200	0.57	0.59		
PT10(385)	-200 to 850	200~600	0.67	0.72		
		600~850	0.75	0.82		
		-200~200	0.24	0.27		
PT25(385)	-200 to 850	200~600	0.30	0.35		
		600~850	0.34	0.41		
		-200~200	0.13	0.16		
PT50(3916)	-200 to 850	200~600	0.17	0.22		
		600~850	0.20	0.27		
PT100(385)		-200~200	0.08	0.10		
PT100(391) PT100(3916)	-200 to 850	200~600	0.11	0.16		
PT100(3926)		600~850	0.14	0.20		
	-200 to 850	-200~200	0.32	0.08		
PT200(385)		200~300	0.34	0.34		
		300~600	0.41	0.41		
		600~850	0.48	0.48		
	-200 to 850	-200~0	0.15	0.04		
DT 400(205)		0~200	0.18	0.18		
PT400(385)		200~600	0.25	0.25		
		600~850	0.30	0.30		
		-200~200	0.16	0.16		
PT500(385)	-200 to 850	200~600	0.22	0.22		
		600~850	0.27	0.27		
		-200~200	0.10	0.10		
PT1000(385)	-200 to 850	200~600	0.16	0.16		
		600~850	0.20	0.20		
Cu10(427)	-200~260	-200~260	0.54	0.56		
Cu50(428)	200~260	-200~260	0.11	0.13		
Cu100(428)	-200~260	-200~260	0.07	0.08		
Ni100(617)	-60~180	-60~0	0.05	0.06		
Ni100(618)	-00~100	0~180	0.05	0.05		
Ni120(672)	80~260	-80~260	0.04	0.05		
Ni1000	-50~150	-50~150	0.07	0.07		

*Note: Ambient temperature of $20^{\circ}C \pm 10^{\circ}C$.

4-wire accuracy. For 2-wire add 50 m\Omega, for 3-wire add 10 m\Omega

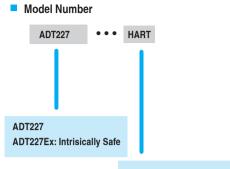
•

07



Metrology Made Simple

ORDERING INFORMATION



HART = HART Capabilities

Accessories (included)							
Model number	Description	QTY					
9811-X	110V/220V external power adapter	1 pc					
9704	Chargeable Li-ion battery	1 pc					
9023	Test leads	1 set (6 pcs)					
9027	Right angle test leads kit	1 set (2 pcs)					
9060	Pressure module connection cable	1 pc					
9040	Hanging strap with magnet	1 pc					
	Manual	1 pc					
	ISO 17025 accredited calibration certificate	1 pc					

Optional Accessories						
Model number	Description					
ADT161Ex - XXX	Intelligent Digital Pressure Modules					
9060	Pressure module connection cable					
9081	U type TC MINI-TC cable					
9052	USB Cable (TYPE - A to C)					
9080	Cable kit (including TC plug, compensation cable, S,R,B,K,J,T,E,N)					
9704	Spare chargeable Li-ion battery for multifunction calibrator					
9811-X	110 V/220 V external power adapter					
9906A	Hard carrying case for handheld instrument with accessories					
9918-SC	Soft carrying case, with space for handheld instrument, test leads, and accessories					
9530-BASIC	Additel/Acal Automated calibration software with asset management					
9530-NET	Additel/Acal Automated calibration software with asset management, network version, Includes server installation and 1 user license					

* Additel/Land software can be downloaded for free at www.additel.com

Additel 161, 161Ex Intelligent Digital Pressure Modules

- Pressure ranges to 60,000 psi (4,200 bar)
- Pressure measurement accuracy of 0.02% FS
- Precision accuracy to 0.01% RD, 0.05% accuracy up to 40K psi
- Intrinsically Safe (Ex) models available
- Fully temperature compensated accuracy

OVERVIEW





Gauge pressure Differential pressure

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, Additel's 161 and 161Ex series Digital Pressure Modules provide an accurate, reliable, and economic solution for wide range of pressure applications. Our intrinsically safe (Ex) models are up to the task of providing the best possible results, even in hazardous environments. In order to reach the best performance, every silicon pressure sensor in the module has been specially aged, tested and screened before assembly. Designed as external pressure modules for Additel's 760 automatic handheld pressure calibrator, the ADT761 automated pressure calibrator, ADT226 series handheld process calibrator and Additel's flagship 780 pressure controller, the Additel 161 is unmatched in performance and reliability. If intrinsic safety is a critical requirement for your workload, we have you covered when you combine our model ADT226Ex process calibrator with any of our ADT161Ex pressure modules.

FEATURES

- Precision sensor measurement accuracy to 0.01% RD
- Gauge pressure measurement accuracy of 0.02% FS
- Absolute Pressure measurement accuracy of 0.1% FS
- Pressure ranges to 60,000 psi (4,200 bar)
- Intrinsically Safe (Ex) models available
- Advanced temperature compensation
- ISO 17025 accredited calibration and data included

PRESSURE RANGE

Differential Pressure									
DAL	Pressure	e Range ^[1]		Accuracy	Burst	Static			
P/N	(inH ₂ 0)	(mbar)	Media	(%FS)	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			
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 1 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.

Gauge Pressure ^[1]								
	Pressure Range		Media	A	Burst			
P/N	(psi)	(bar)	[2]	Accuracy(%FS)	Pressure			
V15	-15	-1.0	G 0.02		3×			
GP2	2	0.16	G	0.05	З×			
GP5	5	0.35	G	0.05	3×			
GP10	10	0.7	G	0.02	3×			
GP15	15	1.0	G	0.02	З×			
GP30	30	2.0	G	0.02	З×			
GP50	50	3.5	G,L	0.02	З×			
GP100	100	7.0	G,L	0.02	З×			
GP150	150	10	G,L	0.02	З×			
GP300	300	20	G,L	0.02	З×			
GP500	500	35	G,L	0.02	3×			
GP600	600	40	G,L	0.02	3×			
GP1K	1,000	70	G,L	0.02	З×			
GP1.5K	1,500	100	G,L	0.02	З×			
GP2K	2,000	140	G,L	0.02	З×			
GP3K	3,000	200	G,L	0.02	3×			
GP5K	5,000	350	G,L	0.02	3×			
GP10K	10,000	700	G,L	0.02	2×			
GP15K	15,000	1,000	G,L	0.05	2x			
GP20K	20,000	1,400	G,L	0.05	1.5x			
GP25K	25,000	1,600	G,L	0.05	1.5x			
GP30K	30,000	2,000	G,L	0.05	1.5x			
GP36K	36,000	2,500	G,L	0.05	1.5x			
GP40K	40,000	2,800	G,L	0.05	1.35x			
GP50K	50,000	3,500	G,L	0.1	1.2x			
GP60K	60,000	4,200	G,L	0.1	1.1x			
[1]. Seale	ed gauge p	ressure for	above 10)00 psi	Now Offering			

Sealed gauge pressure for above 1000
G=Gas, L=Liquid

Liquia

Up to 40K PSI

Phone: 714-998-6899 Email: sales@additel.com Rev # 20210528

Corporate Headquarters 2900 Saturn St #B Brea, CA 92821, USA

Addite Metrology Made Simple

SPECIFICATIONS

Compound Pressure

Pressure / Process Calibration Equipment

Compound Pressure								
P/N	Pressure Range		Media	A	Pressure Rating			
F/N	psig	bar.g	weata	Accuracy	Burst	Over Pressure		
CP2	±2	±0.16	G	0.05% FS	Зх	1.2x		
CP5	±5	±0.35	G	0.02% FS	Зх	1.2x		
CP10	±10	±0.7	G	0.02% FS	Зx	1.2x		
CP15	±15	±1.0	G	0.02% FS	Зх	1.2x		
CP30	-15 to 30	-1 to 2.0	G	0.02% FS	Зx	1.2x		
CP50	-15 to 50	-1 to 3.5	G	0.02% FS	Зx	1.2x		
CP100	-15 to 100	-1 to 7.0	G,L	0.02% FS	Зх	1.2x		
CP300	-15 to 300	-1 to 20	G,L	0.02% FS	Зx	1.2x		
CP500	-15 to 500	-1 to 35	G,L	0.02% FS	Зx	1.2x		
CP600	-15 to 600	-1 to 40	G,L	0.02% FS	Зх	1.2x		
CP1K	-15 to 1,000	-1 to 70	G,L	0.02% FS	Зx	1.2x		
CP2K	-15 to 2,000	-1 to 140	G,L	0.02% FS	Зх	1.2x		
СРЗК	-15 to 3,000	-1 to 200	G,L	0.02% FS	Зx	1.2x		
CP5K	-15 to 5,000	-1 to 350	G,L	0.02% FS	Зx	1.2x		
CP10K	-15 to 10,000	-1 to 700	G,L	0.02% FS	2x	1.2x		

Absolute Pressure

P/N	Pressure Range		Media	1	D		
P/N	(psi)	(bar)	wedia	Accuracy(%FS)	Burst Pressure		
AP5	5	0.35	G	0.1	З×		
AP10	10	0.7	G	0.1	З×		
AP15	15	1.0	G	0.1	З×		
AP30	30	2.0	G	0.1	З×		
AP50	50	3.5	G	0.1	З×		
AP100	100	7.0	G,L	0.05 (0.1)	З×		
AP300	300	20	G,L	0.05 (0.1)	З×		
AP500	500	35	G,L	0.05 (0.1)	З×		
AP1K	1,000	70	G,L	0.05 (0.1)	З×		
АРЗК	3,000	200	G,L	0.05 (0.1)	3×		
AP5K	5,000	350	G,L	0.05 (0.1)	3×		
Barometric Pressure							
P/N	Pressure Range		Media	Accuracy	Burst Pressure		
E/IN			ivieula	Accuracy	Duist Flessule		

Low

60 kPa

ΒP

High

110 kPa

G

40 Pa

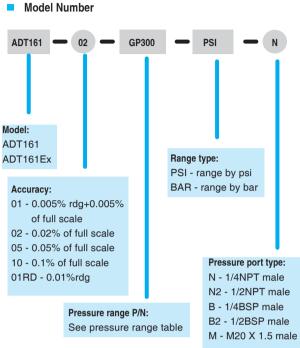
З×



Metrology Made Simple

Precision Sensors ^{[1] [3]} - Absolute Pressure						
P/N	Pressure Range				Pressure Rating	
	psi.a	bar.a	Media	Accuracy ^[2]	Burst	Over Pressure
AP15R	15	1	G	0.01% FS	2x	1.2x
AP30R	30	2	G	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP50R	50	3.5	G	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP100R	115	8	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP300R	315	21	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP500R	515	36	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP1KR	1,015	71	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x
AP2KR	2,015	141	G,L	0.01% rdg or 0.003% FS whichever is greater	Зx	1.1x
AP3KR	3,015	201	G,L	0.01% rdg or 0.003% FS whichever is greater	Зx	1.1x
AP6KQ	6,000	400	G,L	0.01% FS	Зx	1.2x
AP10KQ	10,000	700	G,L	0.01% FS	2x	1.2x
AP15KQ	15,000	1,000	G,L	0.01% FS	2x	1.2x
AP20KQ	20,000	1,400	G,L	0.01% FS	2x	1.2x
AP30KQ	30,000	2,000	G,L	0.02% FS	1.5x	1.1x
AP40KQ	40,000	2,800	G,L	0.02% FS	1.5x	1.1x

ORDERING INFORMATION



Note:Precision Sensors (APXR and APXQ) cannot be configured as an Ex model and cannot be read by Ex device.

Accessories included

ISO 17025 accredited Calibration Certificate

Optional Accessories

Model number	Description	Picture
9060	Pressure module connection cable	

[1] Contact Additel for other range options.

 [2] Accuracy includes calibration uncertainty, linearity and long-term stability.
[3] Precision Sensors (APXR and APXQ) cannot be configured as an Ex model and cannot be read by Ex device.



Additel 226Ex with ADT161Ex Pressure Module

SPECIFICATIONS

	Standard Accuracy			Precision Accuracy		
	СРХХХ	DPXXX	GPXXX	ΑΡΧΧQ	APXXR	
Operating temperature	-10°C to 50°C (14°F to 122°F)		15°C to 25°C (59°F to 77°F)	10°C to 30°C (50°F to 86°F)		
Storage temperature	-20°C to 70°C (-4°F to 158°F)			-20°C to 70°C (-4°F to 158°F)		
Relative humidity		95% RH		90% RH		
Pressure connections (for external use only)	1/4NPT, 1/2NPT, 1/4BSP, 1/2BPS, M20x15			1/4NPT, 1/2NPT, 1/4BSP, 1/2BSP, M20x15		
Enclosure (for external use only)	SS enclosure			SS enclosure		
Intrinisic Safety (ADT161Ex models only)	ATEX certified intrinsically safe			N/A		
Dimensions (Dia x H)	33 mm x 123 mm (1.3" x 4.84")			Depends on the model	44 mm x 195 mm (1.7" x7.7")	
Weight	0.4 kg (0.99 lb)		Depends on the model	0.7 kg (1.5 lb)		
Warranty	1 Year			1 Year	1 Year	
Phone: 714-998-6899 Email: sales@additel.com Corporate Headquarters Salt Lake City						

Rev # 20210528

• •

03

2900 Saturn St #B Brea, CA 92821, USA

1364 West State Rd. Suite 101 Pleasant Grove, UT 84062, USA