Advanced Test Equipment Corp.

www.atecorp.com 800-404-ATEC (2832)

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%FS accuracy up to 40K psi
- Intrinsically Safe (Ex) models available
- **■** Fully temperature compensated accuracy

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, ADT226/227 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/227Ex process calibrator with any of our ADT161Ex pressure modules.



- 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

Differe	ferential Pressure						
P/N	Pressure	e Range ^[1]	Media	Accuracy (%FS)	Burst Pressure	Static	
F/IN	(inH ₂ 0)	(mbar)	Media			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.



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Gauge	ge Pressure ^[1]					
P/N	Pressur	Pressure Range		Accuracy(%FS)	Burst	
. /. ((psi)	(bar)	[2]	/toouraby(/or b)	Pressure	
V15	-15	-1.0	G	0.02	3×	
GP2	2	0.16	G	0.05	3×	
GP5	5	0.35	G	0.05	3×	
GP10	10	0.7	G	0.02	3×	
GP15	15	1.0	G	0.02	3×	
GP30	30	2.0	G	0.02	3×	
GP50	50	3.5	G,L	0.02	3×	
GP100	100	7.0	G,L	0.02	3×	
GP150	150	10	G,L	0.02	3×	
GP300	300	20	G,L	0.02	3×	
GP500	500	35	G,L	0.02	3×	
GP600	600	40	G,L	0.02	3×	
GP1K	1,000	70	G,L	0.02	3×	
GP1.5K	1,500	100	G,L	0.02	3×	
GP2K	2,000	140	G,L	0.02	3×	
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] Sealed gauge pressure for above 1000 psi

[2] G=Gas, L=Liquid



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SPECIFICATIONS

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Compound Pre	Pressure					
P/N	Pressur	e Range	88-40-	A	Pressure Rating	
P/IN	psig	bar.g	Media	Accuracy	Burst	Over Pressure
CP2	±2	±0.16	G	0.05% FS	3x	1.2x
CP5	±5	±0.35	G	0.02% FS	3x	1.2x
CP10	±10	±0.7	G	0.02% FS	3x	1.2x
CP15	±15	±1.0	G	0.02% FS	3x	1.2x
CP30	-15 to 30	-1 to 2.0	G	0.02% FS	3x	1.2x
CP50	-15 to 50	-1 to 3.5	G	0.02% FS	3x	1.2x
CP100	-15 to 100	-1 to 7.0	G,L	0.02% FS	3x	1.2x
CP150	-15 to 150	000 -1 to 20 G,L 0.02% FS		0.02% FS	3x	1.2x 1.2x 1.2x
CP300	-15 to 300			0.02% FS	3x	
CP500	-15 to 500			0.02% FS	3x	
CP600	-15 to 600	-1 to 40	G,L	0.02% FS	3x	1.2x
CP1K	-15 to 1,000	-1 to 70	G,L	0.02% FS	3x	1.2x
CP2K	-15 to 2,000	-1 to 140	G,L	0.02% FS	3x	1.2x
CP3K	-15 to 3,000	-1 to 200	G,L	0.02% FS	3x	1.2x
CP5K	-15 to 5,000	-1 to 350	G,L	0.02% FS	3x	1.2x
CP10K	-15 to 10,000	-1 to 700	G,L	0.02% FS	2x	1.2x

Absolute Pressi	Absolute Pressure						
P/N	Pressur	e Range	Media	Accuracy(%FS)	Burst Pressure		
F/IN	(psi)	(bar)	ivicula	Accuracy(/or 3)	Durst Flessure		
AP5	5	0.35	G	0.1	3×		
AP10	10	0.7	G	0.1	3×		
AP15	15	1.0	G	0.1	3×		
AP30	30	2.0	G	0.1	3×		
AP50	50	3.5	G	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×		
AP3K	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	A	Burst Pressure		
	Low	High	Media	Accuracy	buist Flessule		
BP	60 kPa	110 kPa	G	55 Pa	3×		

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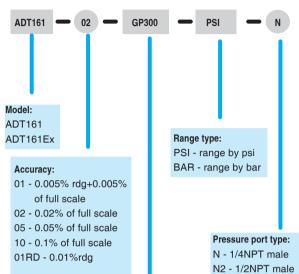
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Precis	Precision Sensors ^{[1] [3]} - Absolute Pressure						
	Pressur	e Range		. [2]	Press	sure Rating	
P/N	N psi.a bar.a Media	Accuracy ^[2]	Burst	Over Pressure			
AP15R	15	1	G	0.01% FS	2x	1.2x	
AP30R	30	2	G	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x	
AP50R	50	3.5	G	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x	
AP100F	115	8	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x	
AP300F	315	21	G,L	0.01% rdg or 0.003% FS whichever is greater	2x	1.2x	
AP500F	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	3x	1.1x	
AP3KR	3,015	201	G,L	0.01% rdg or 0.003% FS whichever is greater	Зх	1.1x	

- [1] Contact Additel for other range options.
- [2] Accuracy includes calibration uncertainty, linearity and long-term stability.
- [3] Precision Sensors (APXR) cannot be configured as an Ex model and cannot be read by Ex device.

ORDERING INFORMATION

Model Number



Pressure range P/N:

See pressure range table

B - 1/4BSP male

B2 - 1/2BSP male

M - M20 X 1.5 male

AF - Autoclave F-250-C female

AM - Autoclave M-250-C male

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Additel 226Ex with ADT161Ex Pressure Module

Note:Precision Sensors (APXR) 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		

SPECIFICATIONS

	Standard Accuracy		у	Precision Accuracy		
	СРХХХ	DPXXX	GPXXX	APXXR		
Operating temperature	-10	-10°C to 50°C (14°F to 122°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 ATEX certified intrinsically safe II 1G EX ia IIC T4 Ga TUR 16.0023X 33 mm x 123 mm (1.3" x 4.84") 0.4 kg (0.99 lb)		SS enclosure		
Intrinisic Safety (ADT161Ex models only)	€x			N/A		
Dimensions (Dia x H)	33 n			44 mm x 195 mm (1.7" x7.7")		
Weight				0.7 kg (1.5 lb)		
Warranty		1 Year		1 Year		

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