

Addited 161, 161Ex

Intelligent Digital Pressure Modules



Metrology Made Simple



Gauge pressure Differential pressure

- Pressure ranges to 60,000 psi (4,200 bar)
- Precision accuracy to 0.01% RD
- Intrinsically Safe (Ex) models available
- Fully temperature compensated accuracy
- Advanced temperature compensation
- ISO 17025 accredited calibration and data included

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.

PRESSURE RANGE

OVERVIEW

Gauge Pressure [1]						
P/N	Pressure Range		Media [2]	Accuracy(%FS)	Burst	
F/N	(psi) (bar)		Media	Accuracy(/oF3)	Pressure	
V15	-15	-1.0	G	0.01, 0.02	3×	
GP2	2	0.16	G, L ^[3]	0.01, 0.02, 0.05	3×	
GP5	5	0.35	G, L ^[3]	0.01, 0.02, 0.05	3×	
GP10	10	0.7	G	0.01, 0.02	3×	
GP15	15	1.0	G	0.01, 0.02	3×	
GP30	30	2.0	G , L	0.01, 0.02	3×	
GP50	50	3.5	G,L	0.01, 0.02	3×	
GP100	100	7.0	G, L	0.01, 0.02	3×	
GP150	150	10	G,L	0.01, 0.02	3×	
GP300	300	20	G , L	0.01, 0.02	3×	
GP500	500	35	G, L	0.01, 0.02	3×	
GP600	600	40	G, L	0.01, 0.02	3×	
GP1K	1,000	70	G,L	0.01, 0.02	3×	
GP1.5K	1,500	100	G, L	0.01, 0.02	3×	
GP2K	2,000	140	G, L	0.01, 0.02	3×	
GP3K	3,000	200	G, L	0.01, 0.02	3×	
GP5K	5,000	350	G,L	0.01, 0.02	3×	
GP10K	10,000	700	G, L	0.01, 0.02	1.5x	
GP15K	15,000	1,000	G, L	0.01, 0.02	1.5x	
GP20K	20,000	1,400	G , L	0.05	1.3x	
GP25K	25,000	1,600	G,L	0.05	1.2x	
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

Note: 0.01%FS accuracy sensors cannot be configured as Ex models and cannot be read by Ex devices.





^{[3] 0.01%}FS,0.02%FS for gas media only

PRESSURE RANGE

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Compound Pressure						
P/N	Pressure Range		Media	A (9/ 50)	Burst Pressure	
P/N	psig	bar.g	iviedia	Accuracy(%FS)	buist Flessure	
CP2	±2	±0.16	G, L ^[1]	0.01, 0.02, 0.05	3x	
CP5	±5	±0.35	G	0.01, 0.02		
CP10	±10	±0.7	G	0.01, 0.02	3x	
CP15	±15	±1.0	G	0.01, 0.02	3x	
CP30	-15 to 30	-1 to 2.0	G, L	0.01, 0.02	3x	
CP100	-15 to 100	-1 to 7.0	G, L	0.01, 0.02	3x	
CP150	-15 to 150	-1 to 10	G, L	0.01, 0.02	3x	
CP300	-15 to 300	-1 to 20	G, L	0.01, 0.02	3x	
CP500	-15 to 500	-1 to 35	G, L	0.01, 0.02	3x	
CP600	-15 to 600	-1 to 40	G, L	0.01, 0.02	3x	
CP1K	-15 to 1,000	-1 to 70	G, L	0.01, 0.02	3x	
CP2K	-15 to 2,000	-1 to 140	G, L	0.01, 0.02	3x	
СРЗК	-15 to 3,000	-1 to 200	G, L	0.01, 0.02	3x	
CP5K	-15 to 5,000	-1 to 350	G, L	0.01, 0.02	3x	
CP10K	-15 to 10,000	-1 to 700	G, L	0.01, 0.02	2x	
CP15K	-15 to 15,000	-1 to 1000	G, L	0.01, 0.02	2x	

[1] 0.01%FS,0.02%FS for gas media only

Note: 0.01%FS accuracy sensors cannot be configured as Ex models and cannot be read by Ex devices.

D/NI	Pressure Range			A [2]	Downt Dune	
P/N	psi	bar	Media	Accuracy ^[2]	Burst Pressure	
AP15R	0 to 15	0 to 1	G	0.01% FS	2x	
CP5M	-5 to 5	-0.35 to 0.35	G	0.01% rdg or 0.005% FS whichever is greater	3x	
CP10M	-10 to 10	-0.7 to 0.7	G	0.01% rdg or 0.005% FS whichever is greater	3x	
CP15M	-15 to 15	-1 to 1.0	G	0.01% rdg or 0.005% FS whichever is greater	3x	
CP30M	-15 to 30	-1 to 2.0	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP50M	-15 to 50	-1 to 3.5	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP100M	-15 to 100	-1 to 7.0	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP300M	-15 to 300	-1 to 20	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP500M	-15 to 500	-1 to 35	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP1KM	-15 to 1,000	-1 to 70	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
СРЗКМ	-15 to 3,000	-1 to 200	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP5KM	-15 to 5,000	-1 to 350	G, L	0.01% rdg or 0.005% FS whichever is greater	3x	
CP10KM	-15 to 10,000	-1 to 700	G, L	0.01% rdg or 0.005% FS whichever is greater	1.5x	
CP15KM	-15 to 15.000	1 to 1.000	G, L	0.01% rdg or 0.005% FS whichever is greater	1.5x	

[1] Contact Additel for other range options.
[2] Accuracy includes calibration uncertainty, linearity and long-term stability.

Note: Precision Sensors (CPXM) cannot be configured as Ex models and cannot be read by Ex devices.





PRESSURE RANGE

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Differential Pres	Differential Pressure						
P/N	Pressure Range ^[1]			Accuracy	Burst	Static Pressure	
P/N	(inH₂0)	(mbar)	Media	(%FS)	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	

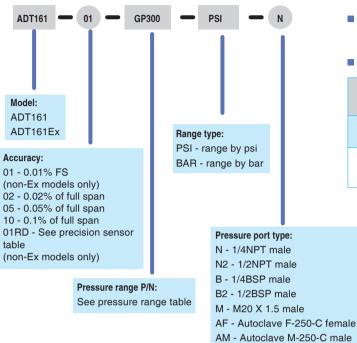
^[1] FS specification applies to the span of the range. Accuracy includes 1 year stability.
[2] 0.05%FS accuracy (incl 6 months stability). One year accuracy is 0.05%FS calibration accuracy combined with 0.05%FS one year stability.

Barometric Pressure								
D/N	Pressure Range		BA - di -	•	Burst Pressure			
P/N	Low	High	Media	Accuracy	Duist Fressure			
BP	60 kPa	110 kPa	G	55 Pa	3×			
BPH	60 kPa	110 kPa	G	10 Pa	3×			



ORDERING INFORMATION

Model Number



Accessories included ISO 17025 accredited Calibration Certificate

Optional Accessories

Model number	Description	Picture
9060	Pressure module connection cable	
9064	Pressure modulelemo connection to USB for high-speed connection of ADT161 to PC	P



Additel 226Ex with ADT161Ex Pressure Module

SPECIFICATIONS

		Standard Accurac	у	Precision Accuracy		
	CPXX	DPXX	GPXX	СРХМ		
Operating temperature	-10°C to 50°C (14°F to 122°F)			10°C to 30°C (50°F to 86°F)		
Storage temperature	-30°C to 70°C (-22°F to 158°F)			-30°C to 70°C (-22°F to 158°F)		
Relative humidity		95% RH		90% RH		
Pressure connections (for external use only)			1/4NPT, 1/2NPT, 1/4E	SSP, 1/2BPS, M20 x15		
Enclosure (for external use only)	SS enclosure					
Intrinisic Safety (ADT161Ex models only)	ATEX certified intrinsically safe II 1G EX ia IIC T4 Ga (ADT161Ex modules only work together with ADT226Ex or ADT227Ex to conform to the ATEX certificate.)					
Dimensions (Dia x H)	33 mm x 123 mm (1.3" x 4.84")					
Weight	Weight 0.4 kg (0.99 lb)			0.99 lb)		
Warranty			1 Year			