Metrology Made Simple

Additel 158Ex
Intelligent Digital Pressure Modules

- **Pressure ranges to 60,000 psi (4,200 bar)**
- **Pressure measurement accuracy of 0.02% FS**
- Intrinsically Safe (Ex)
- Fully temperature compensated accuracy

ADT158Ex

OVERVIEW

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, Additel's 158Ex 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 field switchable pressure modules for use with Additel 273Ex and 260Ex handheld devices, the Additel 158Ex 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 ADT273Ex or ADT260Ex handheld calibrators with any of our ADT158Ex pressure modules.

FEATURES

- Gauge pressure measurement accuracy of 0.02% FS
- Pressure ranges to 60,000 psi (4,200 bar)
- Intrinsically Safe with ADT260EX and ADT273EX
- Advanced temperature compensation
- ISO 17025 accredited calibration and data included

PRESSURE RANGE

Gauge Pressure [1]					
P/N	Pressure Range		Media [2]	Accuracy(%FS)	Burst Pressure
	(psi)	(bar)			
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 , L	0.02	3×
GP30	30	2.0	G , L	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

Compound Pressure						
P/N	Pressure Range		Media	Accuracy	Pressure Rating	
	psig	bar.g			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
CP300	-15 to 300	-1 to 20	G,L	0.02% FS	3x	1.2x
CP500	-15 to 500	-1 to 35	G,L	0.02% FS	3x	1.2x
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

Barometric Pressure					
P/N	Pressure Range		Media	Accuracy	Burst Pressure
	Low	High			
BP	60 kPa	110 kPa	G	55 Pa	3x

Additel 273Ex and 260Ex with ADT158 pressure module installed

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Additel
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ORDERING INFORMATION

Model Number

ADT158EX — 02 — CP300 — PSI — N

Model:
ADT158Ex

Accuracy:
02 - 0.02% of full scale
05 - 0.05% of full scale
10 - 0.1% of full scale

Pressure range P/N:
See pressure range tables

Range type:
PSI - range by psi
BAR - range by bar

Pressure port type:
N - 1/4NPT male
N2 - 1/2NPT male
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

SPECIFICATIONS

Standard Accuracy		
Model	**CPXXX**	**GPXXX**
Operating temperature	-10°C to 50°C (14°F to 122°F)	
Storage temperature	-20°C to 70°C (-4°F to 158°F)	
Relative humidity	95% RH	
Pressure connections (for external use only)	1/4NPT, 1/2NPT, 1/4BSP, 1/2BPS, M20x15	
Enclosure (for external use only)	SS enclosure	
Intrinisic Safety	ATEX certified intrinsically safe only with ADT260EX & ADT273EX	
Dimensions (Dia x H)	33 mm x 123 mm (1.3" x 4.84")	
Weight	0.99 lb (0.4 kg)	
Warranty	1 Year	

Accessories included
ISO 17025 accredited Calibration Certificate

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