

ADT 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**

Overview

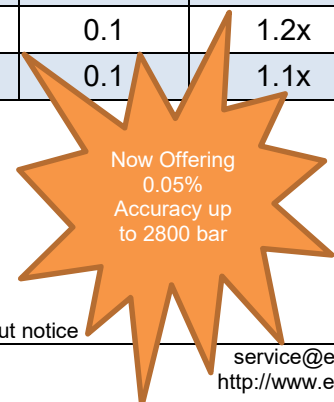
With advanced microprocessor technology and state-of-the-art silicon pressure sensors, Additel's 158Ex series Digital Pressure Modules provide an accurate, reliable, and economic solution for wide range of pressure applications. Our intrinsically safe (Ex) models are up to the task of providing the best 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

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

[1] Sealed gauge pressure for above 70 bar (1000 psi)



Specification

Compound Pressure						
P/N	Pressure Range		Media	Accuracy	Pressure Rating	
	psig	bar g			Burst	Over Pressure
CP2	±2	±0.16	Gas	0.05% FS	3x	1.2x
CP5	±5	±0.35	Gas	0.02% FS	3x	1.2x
CP10	±10	±0.7	Gas	0.02% FS	3x	1.2x
CP15	±15	±1.0	Gas	0.02% FS	3x	1.2x
CP30	-15 to 30	-1 to 2.0	Gas	0.02% FS	3x	1.2x
CP50	-15 to 50	-1 to 3.5	Gas	0.02% FS	3x	1.2x
CP100	-15 to 100	-1 to 7.0	Gas,Liquid	0.02% FS	3x	1.2x
CP150	-15 to 150	-1 to 10	Gas, Liquid	0.02% FS	3x	1.2x
CP300	-15 to 300	-1 to 20	Gas,Liquid	0.02% FS	3x	1.2x
CP500	-15 to 500	-1 to 35	Gas,Liquid	0.02% FS	3x	1.2x
CP600	-15 to 600	-1 to 40	Gas,Liquid	0.02% FS	3x	1.2x
CP1K	-15 to 1,000	-1 to 70	Gas,Liquid	0.02% FS	3x	1.2x
CP2K	-15 to 2,000	-1 to 140	Gas,Liquid	0.02% FS	3x	1.2x
CP3K	-15 to 3,000	-1 to 200	Gas,Liquid	0.02% FS	3x	1.2x
CP5K	-15 to 5,000	-1 to 350	Gas,Liquid	0.02% FS	3x	1.2x
CP10K	-15 to 10,000	-1 to 700	Gas,Liquid	0.02% FS	2x	1.2x

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



Additel 273Ex and 260Ex with ADT158 pressure module installed

Ordering Information

Model Number

ADT 158Ex	02	GP300	PSI	N
	Accuracy:	Pressure Range:	Range type:	Pressure port type:
	02 - 0.02% of full scale		PSI - range by psi BAR - range by bar	N - 1/4NPT male
	05 - 0.05% of full scale			N2 - 1/2NPT male
	10 - 0.1% of full scale			B - 1/4BSP male
				B2 - 1/2BSP male
		See pressure range tables		M- M20x1.5 male
				AF - Autoclave F-250-C female
				AM - Autoclave M-250-D male

Specifications

Standard Accuracy		
	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	
Intrinsic Safety	ATEX certified intrinsically safe only with ADT260EX & ADT273EX	
Dimensions (Dia x H)	33 mm x 123 mm (1.3" x 4.84")	
Weight	0.4 kg (0.99 lb)	
Warranty	1 Year	