Additel 160A Intelligent Digital Pressure Modules



- Pressure measurement accuracy of 0.02% FS
- Pressure ranges to 10,000 psi (700 bar)
- Fully temperature compensated accuracy



OVERVIEW

With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the Additel 160A series Intelligent Digital Pressure Module (IDPM) provides an accurate, reliable, and economic solution for wide range of pressure applications. It is loaded with functionality and remarkably easy to use. 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 module for Additel 761 automated pressure calibrator and Additel 222A, Additel 223A and Additel 761 calibrators, the Additel 160A IDPM is unmatched in performance and reliability.

FEATURES

- Gauge pressure measurement accuracy of 0.02% FS
 Absolute Pressure measurement accuracy of 0.1% FS
- Pressure ranges to 10,000 psi (700 bar)
- Advanced temperature compensation
- NIST traceable calibration and data included

SPECIFICATIONS

Gauge types
 Gauge pressure
 Compound pressure
 Absolute pressure

Pressure Ranges and Accuracy

Compo	und Pressure					
P/N	Pressure Range		Media	Accuracy(%FS)	Burst	
F/IN	(psi)	(bar)	ivicula	Accuracy(701 3)	Pressure	
CP2	±2	±0.16	G	0.05	3×	
CP5	±5	±0.35	G	0.02	3×	
CP10	±10	±0.7	G	0.02	3×	
CP15	±15	±1	G	0.02	3×	
CP30	-15 to 30	-1 to 2	G	0.02	3×	
CP100	-15 to 100	-1 to 7	G, L	0.02	3×	
CP300	-15 to 300	-1 to 20	G, L	0.02	3×	

Gaug	ige Pressure ^[1]					
P/N	Pressure Range		Media	Accuracy(%FS)	Burst	
F/IN	(psi)	(bar)	[2]	Accuracy (761 3)	Pressure	
V15	-15	-1.0	G	0.02	3×	
GP2	2	0.16	G	0.05	3×	
GP5	5	0.35	G	0.02	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×	
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×	
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×	

Note:

- [1]. Sealed gauge pressure for above 1000 psi
- [2]. G=Gas, L=Liquid



SPECIFICATIONS

Absolu	te Pressure				
P/N	Pressure	Range	Media	Accuracy(%FS)	Burst Pressure
F/IN	(psi)	(bar)	ivieula	Accuracy (761 3)	
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×

Differe	Differential Pressure					
P/N	Pressure Range		Media	Accuracy	Burst	Static Pressure
P/IN	(inH ₂ 0)	(mbar)	IVIEUIA	(%FS)	Pressure	Range
DP1	±1	±2.5	G	0.05	100×	±10 psi
DP2	±2	±5.0	G	0.05	100×	±10 psi
DP5	±5	±10	G	0.05	50×	±10 psi
DP10	±10	±25	G	0.05	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
DP150	±150	±350	G	0.02	3×	50 psi
DP300	±300	±700	G	0.02	3×	50 psi

^{*} One year accuracy (including yearly stability) except DP1 and DP2 range which is 0.05%FS calibration accuracy and 0.05%FS yearly stability.

Environmental

Compensated Temperature: 14°F to 122°F(-10°C to

Operating Temperature: 14°F to 122°F(-10C to 50C) Storage Temperature: -4°F to 158°F (-20°C to 70°C) Humidity: <95%

Pressure Connections

1/4NPT male, 1/4BSP male, M20X1.5 male Other Connections available per request

Enclosure

Case material: SS Wetted parts: 316L SS

Dimension: Ø1.3" x 4.84" (Ø33mm x 123mm)

Weight: 0.99 lb (0.4kg)

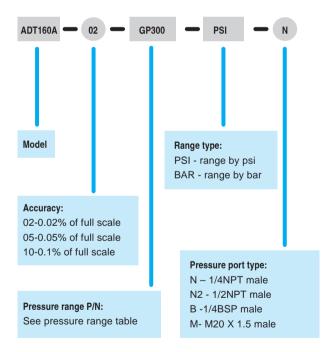
Warranty: 1 Year



Additel 223A with ADT160A Pressure Module

ORDERING INFORMATION

Model Number



Accessories included NIST Traceable Calibration Certificate

Optional Accessories

Model number	Description	Picture	
9060	Pressure module connection cable		