

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



Gauge pressure Differential pressure

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**

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

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

Note:

[1]. Sealed gauge pressure for above 1000 psi

[2]. G=Gas, L=Liquid



SPECIFICATIONS

Absolute Pressure					
P/N	Pressure Range		Media	Accuracy(%FS)	Burst Pressure
	(psi)	(bar)			
AP5	5	0.35	G	0.1	3x
AP10	10	0.7	G	0.1	3x
AP15	15	1.0	G	0.1	3x
AP30	30	2.0	G	0.1	3x
AP50	50	3.5	G	0.1	3x
AP100	100	7.0	G , L	0.05 (0.1)	3x
AP300	300	20	G , L	0.05 (0.1)	3x
AP500	500	35	G , L	0.05 (0.1)	3x
AP1K	1,000	70	G , L	0.05 (0.1)	3x
AP3K	3,000	200	G , L	0.05 (0.1)	3x
AP5K	5,000	350	G , L	0.05 (0.1)	3x

Differential Pressure						
P/N	Pressure Range		Media	Accuracy (%FS)	Burst Pressure	Static Pressure Range
	(inH ₂ O)	(mbar)				
DP1	±1	±2.5	G	0.05	100x	±10 psi
DP2	±2	±5.0	G	0.05	100x	±10 psi
DP5	±5	±10	G	0.05	50x	±10 psi
DP10	±10	±25	G	0.05	20x	±10 psi
DP20	±20	±50	G	0.05	20x	±10 psi
DP30	±30	±75	G	0.05	20x	±10 psi
DP50	±50	±160	G	0.05	3x	±10 psi
DP150	±150	±350	G	0.02	3x	50 psi
DP300	±300	±700	G	0.02	3x	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 50°C)

Operating Temperature: 14°F to 122°F (-10°C to 50°C)

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

ADT160A - 02 - GP300 - PSI - N

Model

Model

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 table

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

M - M20 X 1.5 male

Accessories included

NIST Traceable Calibration Certificate

Optional Accessories

Model number	Description	Picture
9060	Pressure module connection cable	