

Additel 160

Intelligent Digital Pressure Modules

- Pressure measurement accuracy of 0.025% 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 160 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 160 IDPM is unmatched in performance and reliability.

FEATURES

- Gauge pressure measurement accuracy of 0.025% 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	0.025	3x
CP10	±10	±0.7	G	0.025	3x
CP15	±15	±1	G	0.025	3x
CP30	-15 to 30	-1 to 2	G	0.025	3x
CP100	-15 to 100	-1 to 7	G, L	0.025	3x
CP300	-15 to 300	-1 to 20	G, L	0.025	3x

Gauge Pressure ^[1]					
P/N	Pressure Range		Media ^[2]	Accuracy(%FS)	Burst Pressure
	(psi)	(bar)			
V15	-15	-1.0	G	0.025	3x
GP2	2	0.16	G	0.05	3x
GP5	5	0.35	G	0.025	3x
GP10	10	0.7	G	0.025	3x
GP15	15	1.0	G	0.025	3x
GP30	30	2.0	G	0.025	3x
GP50	50	3.5	G, L	0.025	3x
GP100	100	7.0	G, L	0.025	3x
GP300	300	20	G, L	0.025	3x
GP500	500	35	G, L	0.025	3x
GP600	600	40	G, L	0.025	3x
GP1K	1,000	70	G, L	0.025	3x
GP2K	2,000	140	G, L	0.025	3x
GP3K	3,000	200	G, L	0.025	3x
GP5K	5,000	350	G, L	0.025	3x
GP10K	10,000	700	G, L	0.025	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	0.025	3x	50 psi
DP300	±300	±700	G	0.025	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(-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 ADT160 Pressure Module

ORDERING INFORMATION

Model Number

ADT160 - 02 - GP300 - PSI - N

Model

Accuracy:
02-0.025% 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	