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	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×

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	0.02	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

Absolute Pressure

P/N	Pressure Range (psi)	Pressure Range (bar)	Media	Accuracy(%FS)	Burst Pressure
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×

Differential Pressure

P/N	Pressure Range (inH$_2$0)	Pressure Range (mbar)	Media	Accuracy (%FS)	Burst Pressure	Static 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.
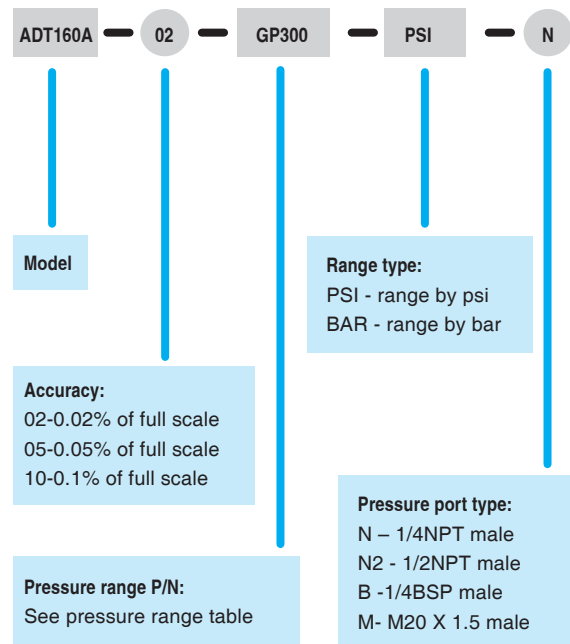
■ **Environmental**
Compensated Temperature: 14°F to 122°F(-10°C to 50°C)
Operating Temperature: 14°F to 122°F(-10C to 50C)
Storage Temperature: -4°F to 158°F (-20°C to 70°C)
Humidity: <95%

■ **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 ADT160A Pressure Module

ORDERING INFORMATION

■ **Model Number**

ADT160A — 02 — GP300 — PSI — N

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	

PRISMA
Instruments
& Gauge Bourdon France