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Additel
Precision under pressure

Calibrator digital, Additel 672

- Pressure ranges to 40,000 psi (2,800 bar)
- HART Communication capability
- Measure mA or V, and with 24V loop power
- Easy-to-use, inexpensive pressure calibrator with uncertainty better than 0.02%FS



Gauge pressure | Differential pressure

OVERVIEW

At first glance, the 672 series precision pressure calibrators look like an ordinary pressure gauge. But this series is much more than ordinary, and definitely more than just a pressure gauge—it's a pressure calibrator! With advanced microprocessor technology and state-of-the-art silicon pressure sensors, the 672 series precision pressure calibrators provide a pressure calibration solution for gauges, transmitters, and switches over a wide pressure range. The 672 is the size of a pressure gauge but with the functionality of a calibrator: It measures pressure precisely with a built-in pressure sensor, as well as reads the current or mV produced by a transducer. It can even supply an excitation voltage to power sensors or transmitters during calibration. In order to reach 0.02%FS accuracy up to 10,000 psi (700 bar) and 0.1%FS accuracy up to 40,000 psi (2,800 bar), every silicon pressure sensor has been specially aged, tested, and screened before assembly. The 672 series precision pressure calibrators are unmatched in performance and reliability.

FEATURES

- Pressure ranges to 40,000 psi (2800 bar)
- Measure mA with 0.01% RD + 1.5 µA accuracy
  Measure V with 0.01% RD + 1.5 mV accuracy
- Power transmitters during test using 24V loop supply
- Pressure switch test
- HART Communication capability
- Advanced temperature compensation
- Dual readout
- Min/Max/Hold to capture changing measurements
- Data logging
- Large, easy to read display with 6-digit resolution
- Backlit display
- Rechargeable battery or AC adapter
- NIST traceable calibration with data (Included)

SPECIFICATIONS

- **Accuracy**
  ADT672-02: 0.02% of full scale
  ADT672-05: 0.05% of full scale
  >20,000 (1,400 bar): 0.1% FS
- **Gauge Types**
  Gauge pressure
  Compound Pressure
  Absolute pressure
  Differential pressure
- **Display**
  Description: Dual-line 6 full digit FSTN LCD with LED Backlight
  Display rate: 3.5 readings per second (Default setting)
  Numeral display height: 16.5mm (0.65")
- **Pressure Units**
  Pa, kPa, MPa, psi, bar, mbar, inH_2O@4°C, mmH_2O@4°C, inHg@0°C, mmHg@0°C, kgf/cm^2
- **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%

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

[1] Sealed gauge pressure for above 1000psi
[2] G=Gas, L=Liquid
[3] 0.02% FS for gas media only

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

[1] FS specification applies to the span of the range

Absolute Pressure					
P/N	Pressure Range		Media	Accuracy(%FS)	Burst Pressure
	(psi)	(bar)			
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		Media	Accuracy (%FS)[1]	Burst Pressure	Static Pressure Range
	(inH_2O)	(mbar)				
DP1	±1	±2.5	G	0.05[2]	100×	±10psi
DP2	±2	±5.0	G	0.05[2]	100×	±10psi
DP5	±5	±10	G	0.05[2]	50×	±10psi
DP10	±10	±25	G	0.05[2]	20×	±10psi
DP20	±20	±50	G	0.05	20×	±10psi
DP30	±30	±75	G	0.05	20×	±10psi
DP50	±50	±160	G	0.05	3×	±10psi
DP150	±150	±350	G	0.02	3×	50psi
DP300	±300	±700	G	0.02	3×	50psi

[1] FS specification applies to the span of the range. Accuracy includes one year stability.
[2] 0.05%FS accuracy (incl 6 months stability). One year accuracy is 0.05%FS calibration accuracy combined with 0.05%FS one year stability.

Electrical Measurement Accuracy		
	Range	Accuracy
Voltage DC	±30.0000V	± (0.01%RD + 1.5mV)
Current DC	±30.0000mA	± (0.01%RD + 1.5 μA)
DC 24V	24V±0.5V max:50mA Protect at: 120mA	
Switch[1]	Status OPEN/CLOSED	

[1] 1V~12V if switch has detective voltage

NOTA: Aceasta fisa a fost realizata sub rezerva modificarilor ulterioare de ordin tehnic sau a erorilor de editare.

Fotografia are caracter informativ.

NOTE: Products and specifications are subject to change without prior notice .Pictures may differ from original.