

Additel 672

Digital Pressure Calibrators

- Pressure ranges to 36,000 psi (2500 bar)
- HART Communication capability
- Measure mA or V, and with 24V loop power
- Easy-to-use, inexpensive pressure calibrator with uncertainty better than 0.025%FS



Gauge pressure

Differential pressure

OVERVIEW

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 a very portable device and can measure pressure precisely with a built-in pressure sensor, as well as read 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 0.025% F. S. accuracy up to 10,000 psi (700 bar) and 0.1% F. S. accuracy up to 36,000 psi (2,500 bar), every silicon pressure sensor in our gauges has been specially aged, tested and screened before assembly. The 672 series precision pressure calibrators are unmatched in performance and reliability.

FEATURES

- Pressure measurement uncertainty:
 - ADT672-02: 0.025% FS
 - ADT672-05: 0.05% FS
- Pressure ranges to 36,000 psi (2500 bar)
- Measure mA or V with 0.02% RD + 0.003%FS 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: 0.025% of full scale
 - ADT672-05: 0.05% of full scale
- **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, inH₂O@4°C, mmH₂O@4°C, inHg@0°C, mmHg@0°C, kgf/cm²
- **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%

SPECIFICATIONS

■ Pressure Ranges

Gauge Pressure^[1]					
P/N	Pressure Range (psi)	Pressure Range (bar)	Media ^[2]	Accuracy(%FS)	Burst Pressure
V15	-15	-1.0	G	0.025 (0.05)	3 X
GP2	2	0.16	G	0.05	3 X
GP5	5	0.35	G	0.025 (0.05)	3 X
GP10	10	0.7	G	0.025 (0.05)	3 X
GP15	15	1.0	G,L ^[3]	0.025 (0.05)	3X
GP30	30	2.0	G,L ^[3]	0.025 (0.05)	3X
GP50	50	3.5	G,L	0.025 (0.05)	3X
GP100	100	7.0	G,L	0.025 (0.05)	3X
GP300	300	20	G,L	0.025 (0.05)	3X
GP500	500	35	G,L	0.025 (0.05)	3X
GP600	600	40	G,L	0.025 (0.05)	3X
GP1K	1,000	70	G,L	0.025 (0.05)	3X
GP2K	2,000	140	G,L	0.025 (0.05)	3X
GP3K	3,000	200	G,L	0.025 (0.05)	3X
GP5K	5,000	350	G,L	0.025 (0.05)	3X
GP10K	10,000	700	G,L	0.025 (0.05)	2X
GP15K	15,000	1,000	G,L	0.05(0.1)	2X
GP25K	25,000	1,600	G,L	0.1	1.5X
GP30K	30,000	2,000	G,L	0.1	1.5X
GP36K	36,000	2,500	G,L	0.1	1.5X

Note: [1]. Sealed gauge pressure for above 1000 psi
 [2]. G=Gas, L=Liquid (please specify media type when place order)
 [3]. 0.025% FS for gas media only

Compound Pressure					
P/N	Pressure Range (psi)	Pressure Range (bar)	Media	Accuracy(%FS)	Burst Pressure
CP2	±2	±0.16	G	0.05	3X
CP5	±5	±0.35	G	0.025 (0.05)	3X
CP10	±10	±0.7	G	0.025 (0.05)	3X
CP15	±15	±1	G	0.025 (0.05)	3X
CP30	-15 to 30	-1 to 2	G	0.025 (0.05)	3X
CP100	-15 to 100	-1 to 7	G,L	0.025 (0.05)	3X
CP300	-15 to 300	-1 to 20	G,L	0.025 (0.05)	3X

Absolute Pressure					
P/N	Pressure Range (psi)	Pressure Range (bar)	Media ^[2]	Accuracy(%FS)	Burst Pressure
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	0.1	3X
AP300	300	20	G , L	0.1	3X
AP500	500	35	G , L	0.1	3X
AP1K	1,000	70	G , L	0.1	3X
AP3K	3,000	200	G , L	0.1	3X
AP5K	5,000	350	G , L	0.1	3X

Differential Pressure					
P/N	Pressure Range (inH ₂ O)	Pressure Range (mbar)	Media	Accuracy(%FS)	Burst Pressure
DP1	±1	±2.5	G	0.05	100X
DP2	±2	±5.0	G	0.05	100X
DP5	±5	±10	G	0.05	50X
DP10	±10	±25	G	0.05	20X
DP20	±20	±50	G	0.05	20X
DP30	±30	±75	G	0.05	20X
DP50	±50	±160	G	0.05	3X
DP150	±150	±350	G	0.025	3X
DP300	±300	±700	G	0.025	3X

Electrical Measurement and Source Accuracy		
	Range	Accuracy
Voltage DC	±30.0000V	± (0.02%RD+0.003%FS)
Current DC	±30.0000mA	± (0.02%RD+0.003%FS)
DC 24V	24V±0.5V max:50mA Protect at: 120mA	
Switch ^[1]	Status OPEN/CLOSED	

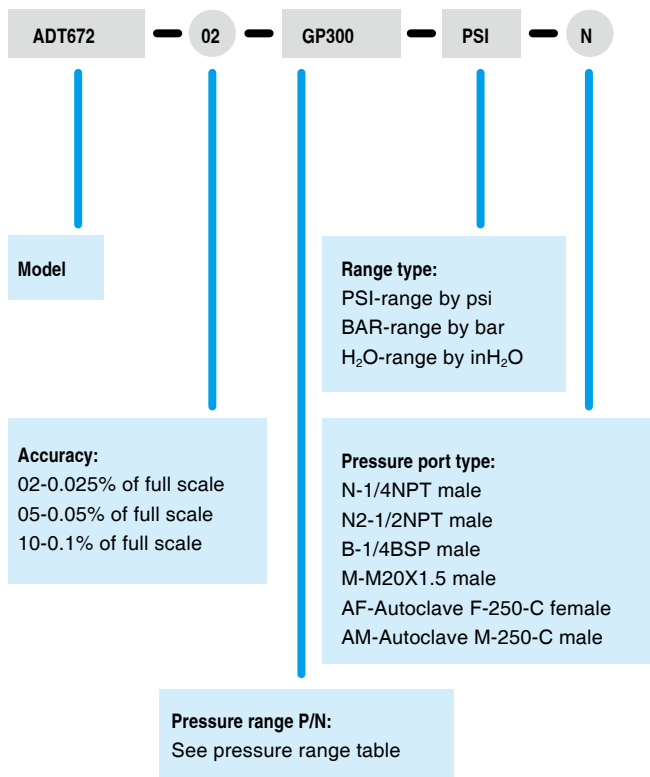
Note: [1] 1V-12V if switch has detective voltage

SPECIFICATIONS

- Pressure Connections**
 1/4NPT male, 1/4BSP male, M20X1.5 male ($\leq 15,000$ psi)
 1/4HP female or 1/4HP male ($>15,000$ psi)
 1/4HP female: Autoclave F-250-C, 9/16" - 18 UNF-2B
 1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2A
 0.236 inch ($\varnothing 6$ mm) test hose (for differential pressure)
 Other connections available per request
- Electrical Connection**
 0.156 inch ($\varnothing 4$ mm) sockets
- Over Pressure Warning: 120%**
- Data Logger**
 Storage capacity: 30 files, 40 records per file
 Mode: manual and automatic
 Hourly-record: record the data every hour
 Interval-record: set by user
- Power**
 Battery: Rechargeable Li-ion polymer battery
 Li-Battery working time: 40 hours
 Recharge time: 4 hours
 External power: 110V/220V power adapter (DC10V)
- Enclosure**
 Case material: Aluminum alloy
 Wetted parts: 316L SS
 Dimension: $\varnothing 120$ mm X 46mm depth X 184mm height
 Weight: 0.7kg
- European Compliance: CE marked**
- Communication**
 RS232 (DB9/F, environmentally sealed)
 Baud rate: 1200,2400,4800,9600
 Data length: 8 bits
 Stop bit: 2 bits
 Address: from 1 to 112
- Warranty: 1 year**

ORDERING INFORMATION

■ Model Number



- Accessories included**
 110V/220V external power adapter (DC 10V)
 2 pieces 1.5-meter test leads
 2 pieces 0.236 inch ($\varnothing 6$ mm) test hose
 (for differential pressure gauge only)
 Additel/Land software
 (free download at www.additel.com)
 Manual
 NIST traceable calibration certificate

■ Optional Accessories

Model number	Description
9702	Spare rechargeable Li-ion polymer battery for 672
9814	Spare 110V/220V external power adapter (DC 10V) for 672 digital pressure calibrator
9502	Additel/Log II real time data logging and graphical software for 681 and 672
9506	Additel/PCal pressure calibration software
9050	USB to RS232 (DB9/M) Adapter
9900-672	Carrying Case for one 672 digital pressure gauge
9021	Spare 2 pieces test leads (1.5-meter) for 672

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