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Addite

Metrology Made Simple

Additel 673

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Pressure / Process Calibration Equipment

Additel 673

Advanced Digital Pressure Calibrators

- Pressure ranges up to 60,000 psi (4,200 bar)
- 0.02%, 0.05% FS or 0.1% RD Accuracy
- Color Touchscreen Display
- Every model measures Gauge or Absolute Pressure
- Built-in Barometer
- Intuitive Smartphone Like Interface
- Bluetooth and USB Communication
- Wi-Fi (optional)
- Measure mA or V, and with 24V loop power
- Full HART Field Communicator (Optional)
- Data logging
- Communicates with Additel's Link Mobile App

OVERVIEW

Additel's 673 Advanced Digital Pressure Calibrators will redefine the way you want to measure and calibrate pressure readings and devices! With wireless remote connectivity, microprocessor technology, state of-the-art silicon pressure sensors and optional onboard storage capacity, these attractive and fully temperature compensated calibrators will provide the performance, durability and reliability you've come to expect from genuine Additel products. The all new modern menu structure and control interface brings a new and refreshing experience to pressure calibration work. This completely new way of interfacing with our pressure calibrators makes the ADT673 a real pleasure to use. The handy Additel Link app gives users the ability to remotely monitor these calibrators from the convenience of a personal device or cell phone. With an abundance of options to choose from, you can configure these pressure calibrators to precisely fit your specific pressure calibration and measurement needs. With an IP67 rating, you will find that these amazing pressure calibrators can be used in the field or laboratory to meet the most demanding pressure calibration needs.

A Modern User Experience:

Additel has gone above and beyond to provide our customers with the best possible experience when using this new and revolutionary calibrator. The 3.4 inch color touchscreen display comes with a protective replaceable tempered glass screen and is a refreshing update to the traditional push button or blister pad interface. With an easy to navigate menu structure and fast touchscreen response, you will find these ADT673 calibrators simple yet powerful to use. The easy to read display isn't just fun to use, but it's built rugged to handle the demands of a busy technician in the field or the laboratory.



HART Field Communicator :

With full support for HART communication protocols, the ADT673 Advanced Digital Pressure Calibrators provide a pressure calibration solution for transmitters over a wide pressure range. The ADT673 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 (loop power) to power sensors or transmitters during calibration.





Phone: 714-998-6899 Fax: 714-998-6999 Email: sales@additel.com Rev # 20210330 Corporate Headquarters 2900 Saturn St #B Brea, CA 92821, USA Salt Lake City Office 1364 West State Rd. Suite 101 Pleasant Grove, UT 84062, USA

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PRESSURE RANGE

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Accuracy

%RD

N/A

N/A

N/A

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

N/A

N/A

N/A

N/A

N/A

N/A

N/A

%FS

0.02 (0.05)

0.05

0.05

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.02 (0.05)

0.05 (0.1)

0.05 (0.1)

0.05 (0.1)

0.05 (0.1)

0.05 (0.1)

0.05 (0.1)

0.1 (0.2)

0.1 (0.2)

Burst

Pressure

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

3×

1.5×

1.5×

1.5×

1.5×

1.5×

1.5×

1.35×

1.2×

1.1×

	AD1673-02: 0.02% of full span		PRES:	SURE RA	NGE	IVI G	etrolog
	ADT673-05: 0.05% of full span						
Accuracy	673-RD: 0% to 20% of Range: 0.02% of full span		Gauge	e Pressure [1]			
	20% to 110% of Range: 0.1% of reading Vacuum: 0.25% of full span[1][2]			Pressure Range			
Barometric			P/N			Media ^[2]	%FS
Accuracy	50Pa			(psi)	(bar)		
(built-in barometer)			V15	-15	-1.0	G	0.02 (0.
Gauge Types	Gauge pressure, compound pressure, absolute pressure, differential pressure		GP2	2	0.16	G, L	0.05
	Color Touchscreen (capacitive)		GP5	5	0.35	G, L	0.05
	Screen protector: tempered glass film (replaceable)		GP10	10	0.7	G, L ^[3]	0.02 (0.
Display	Display rate: 3 readings per second (Default setting).		GP15	15	1.0	G, L ^[3]	0.02 (0.
υιορίαγ	Adjustable from 10 readings per second to 1 reading every 20 seconds						
	Resolution: 4,5 or 6 digits (user selectable)	C	GP30	30	2.0	G, L ^[3]	0.02 (0.
	Pa, kPa, MPa, psi, bar, mbar, kgf/cm ² , inH ₂ O@4°C		GP50	50	3.5	G, L	0.02 (0.
Pressure Units	$mmH_2O@4^\circC$, $inHg@0^\circC$, $mmHg@0^\circC$ and		GP100	100	7.0	G, L	0.02 (0.
	5 customizable units		GP150	150	10	G, L	0.02 (0.
	Compensated Temperature: 14°F to 122°F (-10°C to		GP300	300	20	G, L	0.02 (0.
	50°C) Operating Temperature: 14°F to 122°F (-10°C to 50°C)		GP500	500		· ·	
Environmental					35	G, L	0.02 (0.
	Storage Temperature: -4°F to 158°F (-20°C to 70°C)		GP600	600	40	G, L	0.02 (0.
	Humidity: 0 - 95%, Non-condensing		GP1K	1,000	70	G, L	0.02 (0.
	\leq 15,000 psi: 1/4NPT male, 1/2NPT male, 1/4BSP		GP1.5K	1,500	100	G, L	0.02 (0.
	male, 1/2BSP male, M20×1.5 male >15,000 psi: 1/4HP female or 1/4HP male		GP2K	2,000	140	G, L	0.02 (0.
Pressure Port	*1/4HP female: Autoclave F-250-C, 9/16" - 18 UNF-2B		GP3K	3,000	200	G, L	0.02 (0.
	*1/4HP male: Autoclave M-250-C, 9/16" - 18 UNF-2A	1	GP5K	5,000	350	G, L	0.02 (0.
	Differential Pressure: Barb fitting						
	Other connections available per request		GP10K		700	G, L	0.02 (0.
Over Pressure	120%		GP15K	15,000	1,000	G, L	0.05 (0
Warning			GP20K	20,000	1,400	G, L	0.05 (0
	Battery: Rechargeable Li-ion battery Li-Battery life: 16 hours typical		GP25K	25,000	1,600	G, L	0.05 (0
Power	Recharge time: 4 hours typical		GP30K	30,000	2,000	G, L	0.05 (0
	External power: 110V/220V power adapter (5 VDC)		GP36K	36,000	2,500	G, L	0.05 (0
	Case material: 304 SS		GP40K			G, L	
	Wetted parts: 316 SS ^[3]			,	2,800		0.05 (0
Enclosure	Dimensions: 4.65" (118mm) width X 1.77" (42mm)		GP50K	50,000	3,500	G, L	0.1 (0.
Eliciosule	depth 6.89" (175mm) height		GP60K	60,000	4,200	G, L	0.1 (0.
	Weight: 1.58 lbs. (0.715 kg)		[1] Seal	ed gauge p	ressure fo	or above 1,	000 psi
	Protection Level: IP67			as, L=Liqui			
Electrical	Voltage DC: ±30.0000 V, ± (0.01%RD + 1.5 mV) Current DC: ±30.0000 mA, ± (0.01%RD + 1.5 µA)			% FS for ga		only	
Measurement	DC 24 V: 24 V± 1%, MAX:30 mA		Comp	ound Press	ure		
Accuracy (23 ± 15°C)	Switch ^[4] : Status OPEN/CLOSED, support for		P/N	Pressur	e Range	Media	
(201100)	mechanical switches and NPN/PNP digital switches		F/IN	(psi)	(bar)	Meula	%F
	Data storage: 8GB (100M+ records)		CP2	±2	±0.16	G	0.0
Data Logging	Mode: manual and automatic		CP5	±5	±0.35	G	0.02 (
	Interval-record: user selectable Protection Level: IP67		CP10	±10	±0.00	G	0.02 (
	Vibration: 5 g (10-500 Hz)		CP15			G	
Compliance	Shock Resistance: 8 g/11 ms			±15	±1		0.02 (
	CE		CP30	-15 to 30	-1 to 2		0.02 (
Communication	USB Type-C and Bluetooth included, RS232 or Wi-Fi (optional)		CP100	-15 to 100	-1 to 7		0.02 (
Warranty	1 year		CP300	-15 to 300	-1 to 20		0.02 (
[1] FS = -14.5 psi		-	CP500	-15 to 500	-1 to 35		0.02 (
[2] Applicable ADT	S73-RD-CPY		CP600	-15 to 600	-1 to 40	0 G.L	0.02 (

[1] FS = -14 [2] Applicable ADT673-RD-CPX

[3] Wetted parts material types may vary by pressure range.

Please refer to manual or contact to Additel for more information. [4] Trigger voltage 2.7V

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Pressure Range		Media	Accura	Burst		
F/IN	(psi)	(bar)	weula	%FS ^[1]	%RD	Pressure
CP2	±2	±0.16	G	0.05	N/A	З×
CP5	±5	±0.35	G	0.02 (0.05)	0.1	З×
CP10	±10	±0.7	G	0.02 (0.05)	0.1	З×
CP15	±15	±1	G	0.02 (0.05)	0.1	З×
CP30	-15 to 30	-1 to 2	G	0.02 (0.05)	0.1	З×
CP100	-15 to 100	-1 to 7	G, L	0.02 (0.05)	0.1	З×
CP300	-15 to 300	-1 to 20	G, L	0.02 (0.05)	0.1	З×
CP500	-15 to 500	-1 to 35	G, L	0.02 (0.05)	0.1	З×
CP600	-15 to 600	-1 to 40	G, L	0.02 (0.05)	0.1	З×
CP1K	-15 to 1000	-1 to 70	G, L	0.02 (0.05)	0.1	З×

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

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SPECIFICATIONS

ADT673-02: 0.02% of full span

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Absolute Pressure						
Pressure P/N		e Range	Media	Accuracy(%FS)	Burst	
1 /11	(psi)	(bar)	Weula	Accuracy(781 C)	Pressure	
AP5	5	0.35	G,L	0.1	З×	
AP10	10	0.7	G,L	0.1	З×	
AP15	15	1.0	G,L	0.1	З×	
AP30	30	2.0	G,L	0.1	З×	
AP50	50	3.5	G,L	0.1	З×	
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)	З×	
AP1K	1,000	70	G,L	0.05 (0.1)	3×	
АРЗК	3,000	200	G,L	0.05 (0.1)	3×	
AP5K	5,000	350	G,L	0.05 (0.1)	З×	

Differential Pressure								
P/N	Pressure Range		Media	Accuracy	Burst	Static Pressure		
F/IN	(inH ₂ O)	(mbar)	meula	(%FS) ^[1] F		Range		
DP1	±1	±2.5	G	0.05 ^[2]	100×	±10 psi		
DP2	±2	±5.0	G	0.05 ^[2]	100×	±10 psi		
DP5	±5	±10	G	0.05 ^[2]	50×	±10 psi		
DP10	±10	±25	G	0.05 ^[2]	20×	±10 psi		
DP20	±20	±50	G	0.05	20×	±10 psi		
DP30	±30	±75	G	0.05	20×	±10 psi		
DP50	±50	±125	G	0.05	З×	±10 psi		
DP100	±100	±250	G	0.02	З×	±15 psi		
DP150	±150	±350	G	0.02	3×	50 psi		
DP300	±300	±700	G	0.02	З×	50 psi		

[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.

Barometric P	ressure				
P/N	Press	ure Range	Media	Accuracy	Burst
F/IN	Low	High	weula	Accuracy	Pressure
BP	60 kPa	110 kPa	G	40 Pa	Зх

ORDERING INFORMATION

Model Number

Model Number			essorie	sincluded		
				Rubber boot		
ADT673 - 02 - GP3	00 - PSI - N •• WIFI •	• HART		Test leads (1) set		
			Rechargeable Lion battery (1 pc)			
				USB cable (type-C)		
	Range type:		Power adapter Hanging strap			
	PSI-range by psi					
	BAR-range by bar		Silicone tube - 1 meter each (2 pcs for DP models only)			
	H ₂ O-range by inH ₂ O	tri irm	9	Manual		
			19	O 17025 accredited calibration certificate		
Accuracy:	Pressure port type: N- 1/4NPT male N2- 1/2NPT male	Opt	Optional Accessories			
02-0.02% of full span 05-0.05% of full span		Model	number	Description		
10-0.1% of full span	B-1/4BSP male	9	903	Carrying case for (1) digital pressure gauge		
20-0.2% of full span RD-0.1% of reading	B2-1/2BSP male M-M20X1.5 male	9	502	Additel/Log II real time data logging and graphical software		
	AF-Autoclave F-250-C female AM-Autoclave M-250-C male	9530	-BASIC	Additel/Acal Automated calibration software with asset management, basic version		
Pressure range P/N: See pressure range table		953	0-NET			
Pressure range P/N: See pressure range table	Comm port (optional): WIFI = Wi-Fi		0-NET 0-EXT	Additel/Acal Automated calibration software with asset management, network version, Includes server installation and 1 user license RS 232 (DB9/M) extension cable, 9 feet		
	Comm port (optional):			management, network version, Includes server installatio and 1 user license		

HART Communicator

Accessories Included

Note: For oil-free applications contact Additel.

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