

## Additel 783 Pressure Controller





- Pressure ranges from -14.35 psi (-0.99 bar) to 3600 psi (250 bar)
- Two removable internal pressure modules with multi-range selection
- 0.02%FS, 0.01%FS, and 0.01%RD accuracy
- Control stability of 0.003%FS
- Ultra-High speed pressure control
- Absolute & Gauge Pressure
- LAN, USB, RS232, and Ethernet communication
- Large 7" color touch screen display
- Optional barometric pressure module
- Easy-to-use icon driven interface
- I/O alarm
- Emulation mode



#### **OVERVIEW**

These modular pressure controllers combine cutting-edge control/measurement technology, modular design, and user-friendly features. The Additel 783 controller series is optimized for speed without compromising accuracy and stability. For users who require automated production, test, and calibration, Additel has the workload covered with this pressure controller. The ADT783 can quickly be outfitted with two controlling modules and one reference barometric module to cover a wide pressure range. The Additel 783 series offers three base units to choose from, which range from 3600 psi (250 bar) down to low pressure differential.



#### **ADT783-D**

The ADT783-D is designed for differential and gauge pressure calibration to as low as  $\pm 10$  inH2O ( $\pm 25$  mbar) up to 36 psi (2.5 bar). Select between one or two pressure control modules. Each module comes with a dual-range calibration, expanding measurement accuracy within each module. This unit has a control stability of 0.003%FS. In addition to the two control modules, an optional barometric module can be added which allows for gauge and absolute measurements.



#### ADT783-1K

The ADT783-1K is designed for gauge pressure calibration from -14.35 (-0.99 bar) up to 1000 psi (70 bar). Select between one or two pressure control modules. Each module comes with a dual-range calibration, expanding measurement accuracy within each module. This unit has a control stability of 0.003%FS. In addition to the two control modules and optional barometric module can be added which allows for gauge and absolute measurements.



#### ADT783-3.6K

The ADT783-3.6K is designed for gauge pressure calibration from -14.35 (-0.99 bar) up to 3600 psi (250 bar). Select between one or two pressure control modules. Each module comes with a dual-range calibration, expanding measurement accuracy within each module. This unit has a control stability of 0.003%FS. In addition to the two control modules and optional barometric module can be added which allows for gauge and absolute measurements.



#### **Quick Change Pressure Modules (30 seconds)**

Additel's 151 pressure control modules can be installed or replaced within 30 seconds or less. The upper edge of the cabin is simple to open. As the door opens, the controller will automatically release pressure, providing the safe removal and installation of the ADT151 modules. Additel offers various different pressure ranges for the ADT783 controller by utilizing these easy to swap pressure modules. Select from the module ranges listed on page 5 and page 6.



### Convenient Automatic Calibration of Internal Pressure

Within production environments, higher frequency of calibration and comparison of the pressure control module is important and helps to provide confidence. The ADT783 can be connected with an external high-precision pressure module, which can be used to achieve regular comparison of the internal pressure control module, and can also be used to perform automated calibration of the internal pressure control module.



#### Modular Design, Easy Maintenance

The ADT783 adopts a variety of easy maintenance design features, which allows users to quickly change the rear mounted pressure control module, quickly change the pressure control and valve components, quickly clean the solenoid valve, and provides fine filtration of pollution particles.



#### 20% Pressure Step within 10 Seconds

In the process of efficient and fast-paced production line testing, verification and calibration, users have strict requirements on the speed of pressure controllers. The ADT783 adopts professional control technology to effectively improve control rate and stability: control response time (typical) ≤10 Seconds, control stability (typical)  $\leq \pm (0.001 \sim 0.003)\%$ FS, see specifications for more details.



#### Vacuum Pump Automatic Start-Stop, Greatly Extending the life of Vacuum Pump

The ADT783 incorporates a built-in positive pressure/vacuum gas source with switching components. When controlling a small pressure above the atmospheric pressure point, it can be controllable and stable without connecting the vacuum pump. When controlling negative pressure or vacuum pressure, there is no need to utilize an external vacuum pump or protection components. A solid-state relay can be connected to the power supply line of the vacuum pump to realize fully automatic vacuum pump start-stop control, greatly extending the life of the vacuum pump.



#### **Volt Free Contacts**

The ADT783 built-in 3-way solenoid valve drive can directly control the external isolation valve without an external power supply. Multiple isolation valve combination applications greatly enhances the fexibility of the test system. Three non-contact relay outputs can be used to realize the alarm output of the device, and can also be used to trigger external devices.



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#### **Pressure Specifications**

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Model Specification	ADT783-D	ADT783-1K	ADT783-3.6K
Max Pressure Range	35 psi (2.5 bar)	1000 psi (70 bar)	3600 psi (250 bar)
Min Pressure Range <sup>[1]</sup>	-14.35 psi (-0.99 bar)	-14.35 psi (-0.99 bar)	-14.35 psi (-0.99 bar)
Precision <sup>[2]</sup>	0.015%FS (DP2-DP5) 0.025%FS (DP10-DP1K)	0.01%FS or 0.007%FS or 0.008%RD	0.01%FS or 0.007%FS or 0.008%RD
Accuracy <sup>[3]</sup>	0.05%FS (DP2-DP5) 0.02%FS (DP10-DP1K)	0.02%FS or 0.01%FS or 0.01%RD	0.02%FS or 0.01%FS or 0.01%RD
Control Stability <sup>[4]</sup>	< 0.003%FS, typically 0.001%FS	< 0.003%FS, typically 0.001%FS	< 0.003% FS, typically 0.001%FS
Control Response Time [5]	< 10 Seconds	< 10 Seconds	< 10 Seconds
Pressure Type	Differential	Gauge	Gauge
Gauge and Absolute Pressure Switchable <sup>[6]</sup>	Optional	Optional	Optional
Interchangeable Pressure Module Bays	2	2	2
Max Pressure Control Range of Internal Module	-15 to 36 psi (-1 to 2.5 bar)	-15 to 1000 psi (-1 to 70 bar)	-15 to 3600 psi (-1 to 250 bar)
Min Pressure Control Range of Internal Module	±10 inH20 (±25 mbar)	±10 psi (±0.7 bar)	-15 psi to 150 psi (-1~10 bar)
Maximum High-low Range Ratio	NA	20:1	NA
Range Switching Mode	Fixed or Auto	Fixed or Auto	Fixed or Auto
Supply Source <sup>[7]</sup>	External air source	External air source	External air source
Maximum Supply Pressure <sup>[8]</sup>	4 bar	80 bar	280 bar
Control Mode	Fast, standard, custom	Fast, standard, custom	Fast, standard, custom
Maximum Overshoot	< 1%FS	< 1%FS	< 1%FS
Maximum Load Volume	1000 mL	1000 mL	1000 mL
Contamination Prevention System (CPS)	Optional	Optional	Optional
Pressure Port	6 mm Festo	1/4 BSP M	1/4 BSP M
Air Source Port Safe Pressure Limit <sup>(9)</sup>	Air source port: 10 bar Vacuum source port: 5 bar	Air source port: 140 bar Vacuum source port: 5 bar	Air source port: 300 bar Vacuum source port: 5 bar
Port Filter <sup>[10]</sup>	Support	Support	Support
[1] The minimum negative pressure limit is	given based on the atmospheric pre	assure value of ther	

<sup>[1]</sup> The minimum negative pressure limit is given based on the atmospheric pressure value of 1bar.

<sup>[2]</sup> Precision: the error components include linearity, hysteresis, repeatability, resolution, and temperature compensation.

<sup>[3]</sup> Accuracy: the error components include linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, annual drift, temperature compensation, K=2.

<sup>[4]</sup> In order to achieve 0.001% FS control stability, some additional stabilization time at the desired pressure may be needed depending on the configuration and pressure level.

 $<sup>[5] \ \</sup>dot{T}he \ air \ pressure \ is \ tested \ under \ an \ external \ load \ volume \ 50 \ ml, \ 20\% \ step, \ and \ the \ time \ to \ reach \ 0.005\%FS \ stability.$ 

<sup>[6]</sup> After the reference atmospheric pressure module is installed, users can select gauge or absolute pressure.

<sup>[7]</sup> Gas refers to clean and dry nitrogen or air.

<sup>[8]</sup> In order to achieve the best control effect, the air source pressure should be adjusted to about 110% of the maximum range of the internal pressure control module or 1bar, whichever is greater.

<sup>[9]</sup> In order to prevent the inlet pressure of the air source from exceeding the safety limit, it is recommended to install a suitable pressure safety valve at the outlet of the air source.

<sup>[10]</sup> All pressure ports are installed with 40~100  $\mu m$  filters.

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#### **Specifications for ADT783 Pressure Modules**

The following tables provide information regarding our ADT151 modular pressure sensors that are designed to easily mount in the front bays of the ADT783 Pressure controller. Our differential pressure (DP) and compound pressure (CP) module accuracy specifications include linearity, hysteresis, repeatability, temperature compensation and annual drift, precision specifications include linearity, hysteresis, repeatability, resolution, and temperature compensation. Both the DP and CP style gauges can be zeroed by the controller from time to time to mitigate the effect of zero drift. The specifications are valid from 15°C-35°C. We recommend that these pressure models be calibration annually.

Standard Compound	Gauge Pressure Module for ADT783-1K /	3.6K				
Model	Compound Gauge pressure			Precision[2]	Accuracy[3][4]	Suggested
	1st range <sup>[1]</sup>	2nd range	Media	(%FS)	( <b>% FS</b> )	Contoller Compatibility
ADT151-XX-CP3.6K	(-15~3600) psi / (-1~250) bar	(-15~1500) psi / (-1~100) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-3.6K only
ADT151-XX-CP3K	(-15~3000) psi / (-1~200) bar	(-15~1500)psi / (-1~100) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-3.6K only
ADT151-XX-CP2K	(-15~2000) psi / (-1~140) bar	(-15~1000) psi / (-1~70) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-3.6K only
ADT151-XX-CP1K	(-15~1000) psi / (-1~70) bar	(-15~500) psi / (-1~35) bar	G,L	0.007 (0.01)	0.01 (0.02)	Both
ADT151-XX-CP500	(-15~500) psi / (-1~35) bar	(-15~300) psi / (-1~20) bar	G,L	0.007 (0.01)	0.01 (0.02)	Both
ADT151-XX-CP300	(-15~300) psi /(-1~20) bar	(-15~150) psi / (-1~10) bar	G,L	0.007 (0.01)	0.01 (0.02)	Both
ADT151-XX-CP150	(-15~150) psi / (-1~10) bar	(-15~60) psi / (-1~4) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only
ADT151-XX-CP100	(-15~100) psi / (-1~7) bar	(-15~50) psi / (-1~3.5) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only
ADT151-XX-CP50	(-15~50) psi / (-1~3.5) bar	(-15~30) psi / (-1~2) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only
ADT151-XX-CP35	(-15~35) psi / (-1~2.5) bar	(-15~15) psi / (-1~1) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only
ADT151-XX-CP30	(-15~30) psi / (-1~2) bar	(-15~15) psi / (-1~1) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only
ADT151-XX-CP15	(-15~15) psi / (-1~1) bar	(-10~10) psi / (-0.7~0.7) bar	G,L	0.007 (0.01)	0.01 (0.02)	ADT783-1K only

- [1] The overload pressure of all pressure modules is 110%FS, and the burst pressure is 200%FS, the burst pressure of CP150 is 130%FS.
- [2] Precision: the error components include linearity, hysteresis, repeatability, resolution, and temperature compensation.
- [3] FS specification applies to the span of the range.
- [4] Accuracy: the error components include linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, annual drift, temperature compensation, K=2.
- [5] Sealed gauge pressure for CP2K,CP3K,CP3.6K.

<b>Differential Pressure</b>	Module for ADT783-D					
Model		Differential Pressure			Precision[2] [3]	Accuracy <sup>[4]</sup>
	1st range <sup>[1]</sup>	2nd range	Туре	Media	(%FS)	( <b>% FS</b> )
ADT151-XX-DP1K	(-400~1000) inH2O (-1000~2500) mbar	(-400~400) inH2O (-1000~1000) mbar	DP	G	0.015	0.02
ADT151-XX-DP800	(-400~800) inH2O (-1000~2000) mbar	(-400~400) inH2O (-1000~1000) mbar	DP	G	0.015	0.02
ADT151-XX-DP400	(-400~400) inH2O (-1000~1000) mbar	(-200~200) inH2O (-500~500) mbar	DP	G	0.015	0.02
ADT151-XX-DP300	(-300~300) inH2O (-700~700) mbar	(-150~150) inH2O (-350~350) mbar	DP	G	0.015	0.02
ADT151-XX-DP200	(-200~200) inH2O (-500~500) mbar	(-100~100) inH2O (-250~250) mbar	DP	G	0.015	0.02
ADT151-XX-DP150	(-150~150) inH2O (-350~350) mbar	(-100~100) inH2O (-250~250) mbar	DP	G	0.015	0.02
ADT151-XX-DP100	(-100~100) inH2O (-250~250) mbar	(-50~50) inH2O (-125~125) mbar	DP	G	0.015	0.02
ADT151-XX-DP50	(-50~50) inH2O (-125~125) mbar	(-30~30) inH2O (-75~75) mbar	DP	G	0.015	0.02
ADT151-XX-DP30	(-30~30) inH2O (-75~75) mbar	(-20~20) inH2O (-50~50) mbar	DP	G	0.015	0.02
ADT151-XX-DP20 <sup>[5]</sup>	(-20~20)inH2O (-50~50)mbar	(-10~10) inH2O (-25~25)mbar	DP	G	0.015	0.02
ADT151-XX-DP10 <sup>[5]</sup>	(-10~10) inH2O (-25~25) mbar	(-5~5) inH2O (-10~10) mbar	DP	G	0.015	0.02
ADT151-XX-DP5 <sup>[5]</sup>	(-5~5) inH2O (-10~10) mbar	(-2~2) inH2O (-5~5) mbar	DP	G	0.025	0.05
ADT151-XX-DP2 <sup>[5]</sup>	(-2~2) inH2O (-5~5) mbar	(-1~1) inH2O (-2.5~2.5) mbar	DP	G	0.025	0.05

- [1] The overload pressure of all pressure modules is 150%FS, and the burst pressure of modules: DP20 / DP 10 / DP5 / DP2: 100mbar, DP100 / DP50 / DP30:1000mbar, DP400 / DP300 / DP150: 4000 mbar, DP800 / DP100:10000 mbar.
- [2] FS specification applies to the span of the range.
- [3] Precision: the error components include linearity, hysteresis, repeatability, resolution, and temperature compensation.
- [4] Accuracy: the error components include linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, annual drift, temperature compensation, K=2.
- [5] Recommended calibration period 180 days.



High-precision Compound Gauge Pressure Module Specification for ADT783-1K / 3.6K

Model	Gauge pressure range <sup>[1]</sup>	Absolute Pressure Range <sup>[2]</sup>	Media	Precision <sup>[3][4]</sup>	Accuracy <sup>[5][6]</sup>	Suggested Contoller Compatibility
ADT151-XX-CP3.6KM	(-15~3600) psi	(0~3615) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-3.6K only
ADT151-XX-CP3KM	(-15~3000) psi	(0~3015) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-3.6K only
ADT151-XX-CP2KM	(-15~2000) psi	(0~2015) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-3.6K only
ADT151-XX-CP1.5KM	(-15~1500) psi	(0~1515) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-3.6K only
ADT151-XX-CP1KM	(-15~1000) psi	(0~1015) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	Both
ADT151-XX-CP500M	(-15~500) psi	(0~515) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	Both
ADT151-XX-CP300M	(-15~300) psi	(0~315) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	Both
ADT151-XX-CP150M	(-15~150) psi	(0~165) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	Both
ADT151-XX-CP100M	(-15~100) psi	(0~115) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-1K only
ADT151-XX-CP50M	(-15~50) psi	(0~65) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-1K only
ADT151-XX-CP35M	(-15~35) psi	(0~50) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-1K only
ADT151-XX-CP30M	(-15~30) psi	(0~45) psi	G,L	0.008% rdg or 0.004% FS whichever is greater	0.01% rdg or 0.005% FS whichever is greater	ADT783-1K only

- [1] The overload pressure of all pressure modules is 110%FS, and the burst pressure is 200%FS, the burst pressure of CP150M is 130%FS.
- [2] Absolute pressure is achieved through the synthesis of the basic gauge pressure module and the optional atmospheric pressure module.
- [3] FS refers to the positive range, and the accuracy of the negative pressure part is equal to that of the positive pressure part.
- [4] Precision: the error components include linearity, hysteresis, repeatability, resolution, and temperature compensation.
- [5] The accuracy of the negative pressure part is equal to the accuracy of the positive pressure part, such as the maximum error of -15 psi is equal to the maximum allowable error of 15 psi.
- [6] Accuracy: the error components include linearity, hysteresis, repeatability, resolution, reference standard measurement uncertainty, annual drift, temperature compensation, K=2.
- [7] Sealed gauge pressure for CP2KM,CP3KM,CP3.6KM.

#### **BAROMETRIC MEASUREMENT SPECIFICATIONS**

Model <sup>[1]</sup>	Absolute Pressure Range	Accuracy
ADT151-BP	(60~110) kPa	±22 Pa
ADT151-BPH	(60~110) kPa	±10 Pa

<sup>[1]</sup> A barometric pressure module is optional. After inserting the barometric pressure module, the controller can be toggled to and from gauge and absolute pressure units.

#### **General Specifications**

Specification	Description				
	Power supply: AC100~240 V, 50/60 Hz				
Power Requirements	Fuse: T3.15A 250V AC				
	Maximum Power consumption: 150W				
	Chassis Size: 17.32 × 5.23 × 14.96 in (440(W) × 133(H) × 380(D) mm)				
Sizo /Moight	Rack Mount Dimensions: 3U-19" rack, Horizontal Direction				
Size /Weight	Chassis weight: 16.9 kg				
	Pressure module weight: 0.5 kg				
	Operating Ambient: 10℃ ~50℃				
	Storage Temperature: -20°C ~70°C				
	Operating humidity: 5%RH~95%RH, non-condensing				
	Altitude (Operation): <2000 m				
Environment	Ingress Protection: IP20, Indoor use only  Vibration level: 2 G				
	Impact intensity: 4 G Warmup Time: 15 minutes				
	Machine drop height: 250 mm				
Conformity	CE, UKCA				
	RS232, USB-A*2, LAN				
	WIFI, Bluetooth, GPIB, mouse, keyboard and other peripheral components can be expanded based on the				
Communications	USB port.				
	SCPI Command set is compatible with ADT780, PACE5000/6000, DRUCK DPI520, user customizable				
	3-channel external drive valves, green terminal connector with lock				
External drive valve port	Maximum driving ability 24 V / 12 W, 30 V max				
·	One channel fixed to the CPS pollution prevention device, the remaining 2 channels, users can be used to				
	Control the external vacuum Pump and external isolation valve				
I/O Alarm port	3-channel, green terminal connector with a lock				
To Aldrin port	Volt-Free No/Nc relay, the maximum current-carrying capacity: 24 V / 0.5 A, 30 V max				
	One channel, green terminal connector with lock				
Pressure switch test port	Maximum load 24 V / 0.1 A 30 V max				
	Support mechanical switch, electronic switch testing				
	7-inch capacitive touch screen, 1280 * 800 resolution, reflective panels, black, white background can switch				
Display	Communication update speed: 10 times per second				
	Display refresh rate: 5 times per second				
	Pressure value maximum displays: + 9999999, display digits is adjustable				
External pressure module	Measurement only				
	Opening the cabin door will automatically release the pressure for safe removal of modules				
Internal pressure control module port	Inside of cabin, 3 pressure module bays, from left to right				
	including a high pressure module bay, a low pressure module bay, and a barometric pressure module bay				
Warranty	1 year				
Hose & Filter End of Life	The estimated End of Life (EOL) expectancy for all hoses and filters (pneumatic and hydraulic) is approximately 10 years and should be replaced at the first sign of wear or damage.				







System Settings

# Addite Metrology Made Simple

#### **ORDERING INFORMATION**

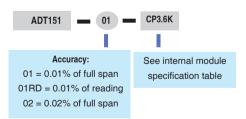
#### ■ Model Number (Base Unit Only - No Pressure Modules)

Model:
ADT783
ADT783-1K
ADT783-3.6K

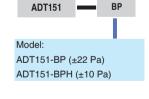


Note of ADT1	51 Pressure Modules					
Model number	High Module Bay	Note	Low Module Bay	Note	Barometer Module Bay	Note
ADT783-D	ADT151-XX-DP30~DP1K	At least one module within the range of DP30 to DP1K must be installed in the high side module bay.	ADT151-XX-DP2-DP1K			
ADT783-1K	ADT151-XX-CP50~CP1K	At least one module within the range of CP50 to CP1K must be installed in the high side module bay.	ADT151-XX-CP15-CP1K	The low module bay can be left empty, but when a low-pressure module is installed, the range must be lower than the installed high pressure module.	ADT151-BP ADT151-BPH	See ADT151 barometric specifications table for details.
ADT783-3.6K	ADT151-XX-CP2K~CP3.6K	At least one module within the range of CP2K to CP3.6K must be installed in the high side module bay.	ADT151-XX-CP150-CP3.6K	,		

#### **Model Number (Pressure Modules)**









ADT151-BP

Accessories (included)				
Model number	Quantity	Picture		
AC power cord (10A 250V)	1 pc	O		
ISO17025 accredited calibration certificate	1 pc			
Green terminal plug (For switch detection)	2 pcs			
O-ring 3.5*1.5 (For ADT151)	10 pcs	0		
Festo plug 6 mm (For sealing) (Only for ADT783-D)	2 pcs			
Silicone tube 120 kPa max (Only for ADT783-D)	0.3 m 3 pcs			
Polyurethane tube 700 kPa max (Only for ADT783-D)	1.5 m 2 pcs	0		
ADT100-BARB-FESTO (Only for ADT783-D)	2 pcs			
Standard vent assembly (Plug with vent valve) (Only for ADT783-1K/3.6K)	1.5 m 2 pcs	<b>S</b>		

	al Accessories	
Model number	Description	Picture
9050	USB to 232 cable	4
9055-1	USB to Bluetooth module	Ø
9055-2	USB to WIFI module	•
9053	USB to GPIB cable	0
9050-EXT	RS232 communication line	Walter State of the State of th
9245	Rack Flange Assembly	
9055	Green terminal plug	
9060	ADT161 pressure modules connection cable	
9054	Calibration fixture for ADT151 (Including adapter base w/ 1/4BSP male fitting, RS232/power supply cable, 9V adapter, calibration software)	

Model number	Description		Picture		
9240A (Only for ADT783-D)	DP gauge holder with a built-in 80 ml	DP gauge holder with a built-in 80 ml chamber			
ADT121-X	External Manifold	External Manifold			
1650700087	Quick connetcor (6 mm)	Need this 2 parts on Vent or Exhaust ports to drain the			
1650800039	Polyurethane tube (6 mm×1.5 m )	internal liquid to external container			
ADT108-KIT	Contamination Prevention Sys (Including ERP#:1650800039 polyurethane hose 700 adaptor, 6mm Festo to 1/4BSF				