




ADT715-BP Reference Barometer ADT715 Precision Pressure Indicator Quick Start Guide



[Version: 2505V03]

Safety Instructions

- >  Indicates the user must refer to the user manual prior to using the instrument.

Warning

- > Please read the user manual before using the product, especially the "Safety Instructions";
- > The screen of the product can only be locked at a fixed angle, do not force the screen beyond the roughly 30 degrees of tilt;
- > If the product is damaged or malfunctions, please do not use it;
- > Use only approved accessories. If the accessories are discolored, cracked, or damaged, do not use them;
- > Before using the product, please make sure all the pressure connections are secure;
- > Do not disconnect or connect quick connectors under pressure.

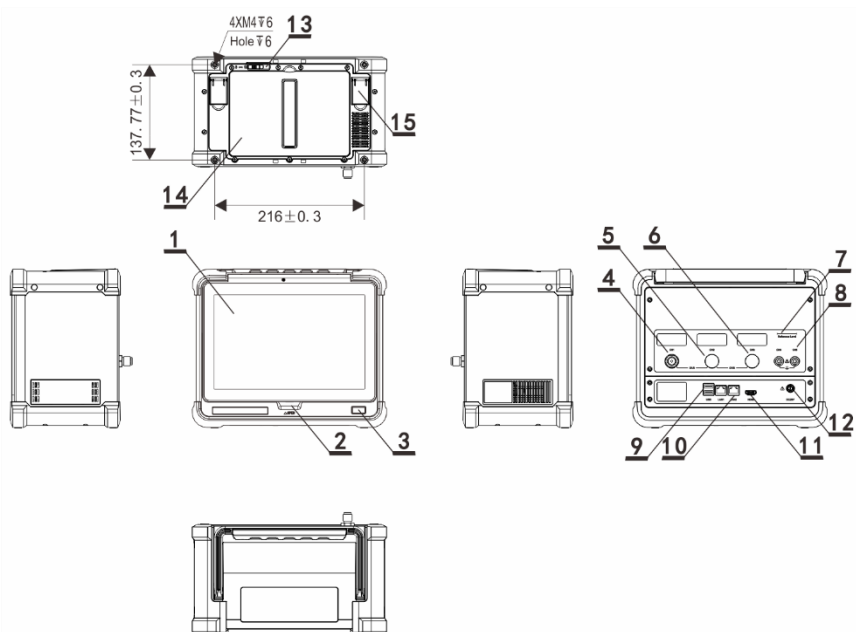
Note

- > Do not apply pressure beyond the range of the instrument, any damage caused by over pressure will not be covered by the warranty;
- > Do not use in or near explosive gases, vapours or dusty environments;
- > Avoid using the instrument in vibration, elevated temperature, high humidity or strong magnetic field environments;
- > In the case of exposure to condensation, the instrument must be dried out before switched on
- > If the UUT utilizes liquid, the liquid must be compatible with SS, aluminum copper alloy, NBR and PU. Corrosive solvent can damage the system's sealing and cause leakage;
- > Gas: we recommend nitrogen or dry air as a pressure media;
- > In case of serious abnormal, please switch it off and contact Additel.

* **Warning:** Conditions or operations which may cause injury to operator.

* **Note:** Conditions or operations which may cause damage to device or UUTs.

Basic Structure



Basic structure diagram

Basic structure list

| No. | Name | Description |
|-----|-----------------|--|
| 1 | Display | 10.1" touch screen display |
| 2 | Screen lock | The screen is locked in the locked status, and the screen can be flipped by pressing upwards to unlock |
| 3 | Power button | Power on and off |
| 4 | Reference level | Reference level mark of internal pressure sensor |
| 5 | CH1 supply port | Configurable barometric module, 1/8 BSP F with male fitting, can be plugged when this channel is empty |
| 6 | CH2 supply port | Configurable gauge pressure module, 1/8 BSP F with male fitting, can be plugged when this channel is empty |
| 7 | CH3 supply port | Configurable gauge pressure module, 1/8 BSP F with male fitting, can be plugged when this channel is empty |
| 8 | CH4, CH5 | Lemo ports for external ADT161 pressure modules |
| 9 | USB | For USB stick or peripherals |
| 10 | LAN1, LAN2 | Ethernet 100/1000Mbps |
| 11 | HDMI | For display extension |

| | | |
|----|-----------------|--|
| 12 | DC28V | Power supply |
| 13 | Battery lock | Lock the battery, slip to unlock and remove the battery |
| 14 | Li-ion battery | Optional lithium ion battery, can be charged independently |
| 15 | Supporting feet | Support the device to 20° |

Model Configuration

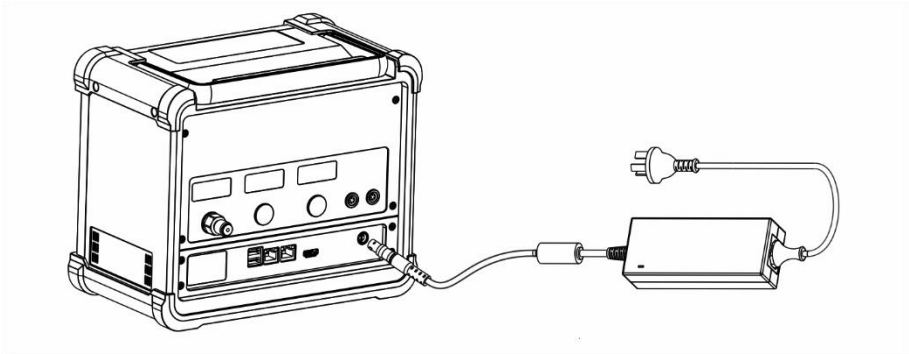
| Module Config. | CH1 Internal channel | CH2 Internal channel | CH3 Internal channel | CH4 External channel | CH5 External channel |
|----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| ADT715-BP | ■ | ○ | ○ | ○ | ○ |
| | Barometric | | | | |
| ADT715 | ● | ■ | ○ | ● | ● |
| | Barometric | GP | | | |
| ADT715 | ● | ■ | ■ | ● | ● |
| | Barometric | GP low range | GP high range | | |

Note 1: ■required; ○empty; ●optional

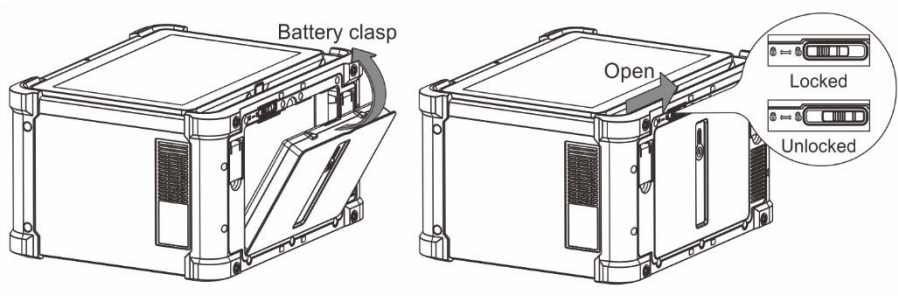
Note 2: The barometric module on CH1 can be either internal or external. By this, all channels support switch between gauge (GP) and absolute (AP) pressure

Power Supply

1. Power adapter

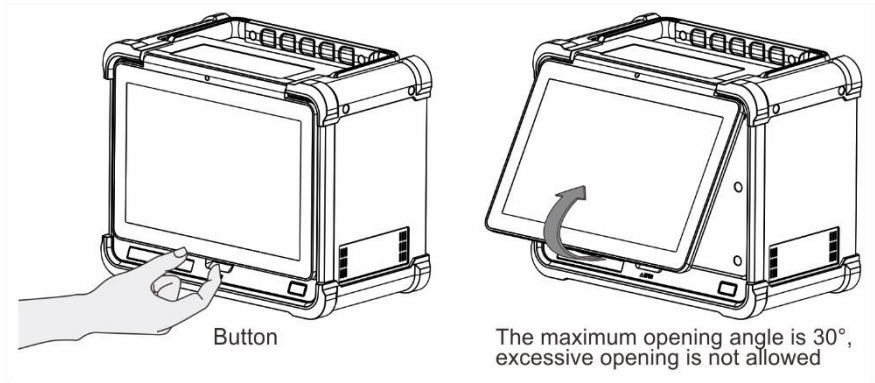


2. Li-ion battery (optional)



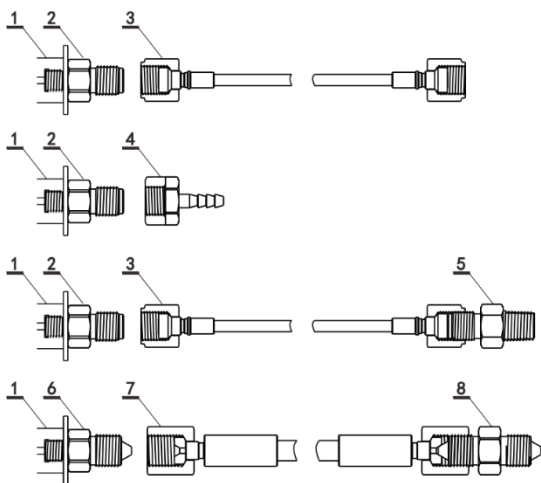
* Li-ion battery is an optional accessory. If needed, please contact Additel to order.

Screen Reverse



Pressure Connection

ADT715 series is equipped with male pressure fitting, please refer to below picture for typical connection types.



ADT715-BP fittings configuration

| No. | Description | Fitting type |
|-----|--|---------------------------|
| 1 | Built-in pressure fitting | 1/8 BSP F |
| 2 | Pre-assembled fitting of barometric module | 1/4 BSP M |
| 3 | Pressure hose of barometric module | 1/4 BSP F at both sides |
| 4 | 1/4 BSP F pressure fitting | 1/4 BSP F to other M type |

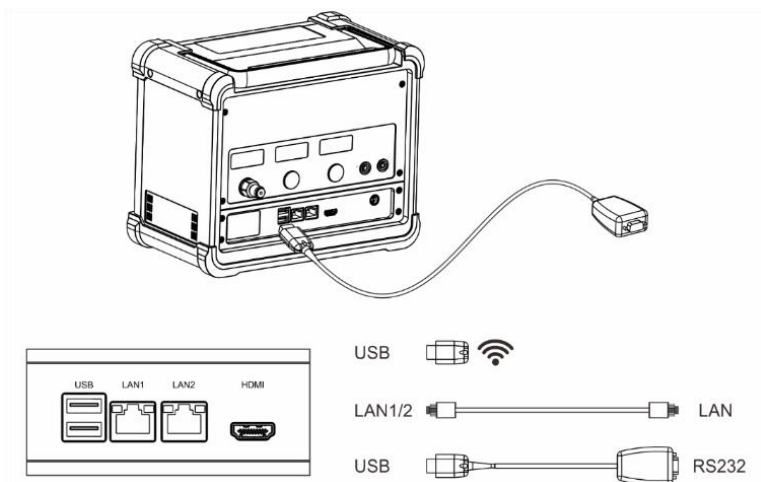
Note: ADT715-BP has one pressure hose with 1/4 BSP M fitting at both sides, and one 1/4 BSP M to barb fitting adapter. If you need other types of adapters, please contact Additel to order.

ADT715 fittings configuration

| No. | Description | Fitting type |
|-----|--|---------------------------|
| 1 | Built-in pressure fitting | 1/8 BSP F |
| 2 | ≤700 bar (10000psi) Pre-assembled pressure fitting | 1/4 BSP M |
| 3 | ≤700 bar(10000psi) Pressure hose | 1/4 BSP F at both sides |
| 5 | Pressure fitting 1/4 BSP M | 1/4 BSP M to other M type |
| 6 | > 700 bar(10000psi) Pre-assembled pressure fitting | 1/4 HP M |
| 7 | > 700 bar(10000psi) Pressure hose | 1/4HP F at both sides |
| 8 | Pressure fitting 1/4 HP M | 1/4 HP M to other M type |

Note: For ADT715, please choose proper pressure fittings and hoses according to the pressure module. Please contact Additel for more details.

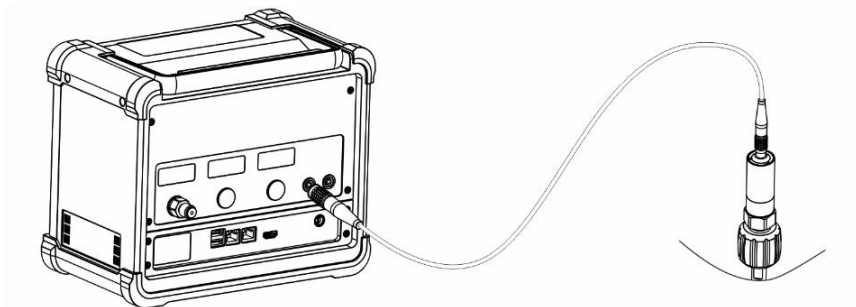
Communication



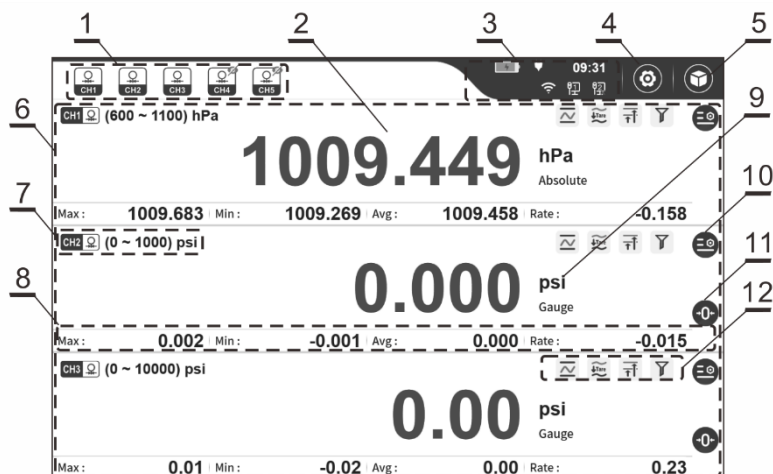
Note: The instrument only supports one RS232 cable for communication port. For LAN and WLAN communication, please refer to the user manual.

* The wireless network adapter and communication cable are optional accessories. If needed, please contact Additel to order.

Connect to External Sensors



* The external pressure sensor in this picture is optional accessory. If needed, please contact Additel to order.



Main Display

* The display may vary depending on modules.

| No. | Name | Description |
|-----|-------------------------------|---|
| 1 | Channel online display | Shows the channels online, control channel status |
| 2 | Real time pressure | Display real time pressure value of the channel |
| 3 | Status bar | Time and date: system time : WIFI status, show WIFI status and signal : LAN, indicates LAN connected : USB, indicates USB devices connected : show current battery status and level |
| 4 | Setup | Includes settings for modules, communication, services, personalization and system |
| 5 | Application | Provides various applications |
| 6 | Channel | Display up to 5 channels; when there are 4 channels or more, the auxiliary information will be hidden |
| 7 | Range | Support switch pressure range |
| 8 | Auxiliary information display | Click to select any four of the items to be displayed |
| 9 | Unit | Click to switch pressure unit |
| 10 | Module settings | Set module type, unit, resolution, stability, filter... |
| 11 | Zero | Perform zero when the zero condition is met |
| 12 | Enabled functional icon | stability, head correction filter tare |

Metrology Made Simple

Statement

The product technical specifications, accessories and other related information in this manual are subject to change without prior notice. Please contact Additel Corporation if you have any questions.

Additel Corporation

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Download User Manual