

# Additel 273Ex Handheld Pressure Calibrator

- 0.02%, 0.05% FS Accuracy
- Intrinsically Safe
- **Field Switchable Pressure Module**
- Dual Digital Pressure Module Inputs
- Color Touchscreen Display
- Built-in Quick Test Task Feature
- **■** Built-in Barometer
- Intuitive Smartphone Like Interface
- Bluetooth and USB Communication
- Optional HART Communication
- Communicates with Additel's Link Mobile App

#### **OVERVIEW**



Additel 273Ex with ADT158Ex module

Additel's 273Ex is an Intrinsically safe handheld multifunctional pressure calibrator with a color touchscreen, smartphone like interface, built-in quick test tasks and optional HART communications capability. This innovative Additel product drastically improves explosion-proof field testing and calibration. The Additel 273Ex has a built-in atmospheric pressure sensor, so that absolute pressure and the gauge pressure are easily facilitated. With three pressure module inputs, one switchable at the bottom and two digital inputs on the side, the user can configure the setup accordingly and easily meet the needs of pressure calibration and testing in virtually any environment.

#### **Intrinsically Safe:**

ADT273Ex has passed the most stringent ATEX, IECEX, CSA, and UKCA intrinsic safety certifications from authoritative organizations. The explosion-proof level is Ex ia IIC T4 Ga. It can be widely used in potentially explosive gas environments, such as oil and gas platforms, refineries, chemical and petrochemical plants, pharmaceutical industry, energy and gas processing industry. Each intrinsically safe calibrator has an advance transflective color LCD display which has enhanced visibility when viewed in direct sunlight. No matter where your work takes you, these calibrators are up to the task.

#### 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 color touchscreen display provides a refreshing and intuitive experience compared to other calibrators on the market. With an easy to navigate menu structure and fast touchscreen response, you will find the ADT273Ex calibrator 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.

### **Optional HART Communication:**

With support for HART communication protocols, the ADT273Ex Handheld Pressure Calibrator provides a pressure calibration solution for transmitters over a wide pressure range. The ADT273 is a highly portable device and can measure pressure precisely with a field switchable 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.

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## **FUNCTIONAL FEATURES**

| Functional Features          | Details  |
|------------------------------|--|
| Scaling                      | User can convert measured current, voltage and frequency values into pressure, temperature and flow values.  Three conversion functions available: linearity, square and square root |
| Filtering                    | Average sliding filter (sampling number: 1 ~ 50) First-order linear filter (First-order coefficient: 0.01 ~ 1)   |
| Switch                       | The measurement value will be automatically displayed at the moment the switch change of state. The latest 8 state changes will be stored in the memory.                             |
| Pressure Tare                | Tare value is set through the user interface   |
| Pressure stability indicator | Stability time and criteria is selectable  |
| Power management             | Backlight auto off Auto power off  |

## **Specifications**

| Top: 1 electrical signal measurement channel, \$\(\phi\)4mm banana jacks   | opecinications          |  |  |  |  |
|--|-------------------------|--|--|--|--|
| Right side: 2 channels for external digital pressure modules, 5-core dedicated aviation plug   Bottom: embedded digital pressure module (model ADT158Ex), field switchable.   Internat: 1 embedded atmospheric pressure sensor   #55 Pa  | General Specifications  |  |  |  |  |
| Bottom: embedded digital pressure module (model ADT158Ex), field switchable.  Internal: 1 embedded atmospheric pressure sensor  ### ### ### ### ### ### ### ### ### #  | Input Channels          | Top: 1 electrical signal measurement channel, φ4mm banana jacks                              |  |  |  |
| Barometric Accuracy ±55 Pa  Measurement Rate  Pressure module: 1-10 times/sec selectable (3 as default)  Barometer: 1 time/sec  Power 4000mAh, 14.4Wh explosion-proof intelligent lithium battery, charging time = 6-8 hours, battery can be charged independently Typical working time 10 hours (measurement mode)  Guaranteed temperature range of technical specifications: (-10 - 50)°C  Temperature coefficient: 35 pmr 87°C (-20 to -10)°C  Operating temperature: (-30 - 70)°C  Humidity: 0% to 95% RH, non-condensing  Altitude: 3000 meters  Warm-up Time  Port Protection Voltage  Explosion-proof Grade  Explosion-proof Grade  Explosion-proof Grade  Explosion-proof Grade  CE Certification  Rohs Compliance  Protection Level  Protection Level  Poft, 1 meter drop test  Communication  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 ib (0.9 kg)   |                         | Right side: 2 channels for external digital pressure modules, 5-core dedicated aviation plug |  |  |  |
| #55 Pa    Measurement Rate   |                         | Bottom: embedded digital pressure module (model ADT158Ex), field switchable.                 |  |  |  |
| mV, V, mA & frequency: 3 times/sec  Pressure module: 1~10 times/sec selectable (3 as default)  Barometer: 1 time/sec  4000mAh, 14. 4Wh explosion-proof intelligent lithium battery, charging time = 6~8 hours, battery can be charged independently Typical working time 100 hours (measurement mode)  Guaranteed temperature range of technical specifications: (-10 ~ 50)°C  "Temperature coefficient: ±5 ppm FS°C (+20 to -10)°C  Operating temperature: (-30 ~ 70)°C  Humidity: 0% to 95% RH, non-condensing  Altitude: 3000 meters  Warm-up Time  10 min to fully meet technical specifications  9ort Protection Voltage  Explosion-proof Grade  Explosion-proof Grade  Explosion-proof Grade  CE Certification  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  Protection Level  Protection Level  Pe7, 1 meter drop test  Solate USB-Type C (slave), Bluetooth  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 ib (0.9 kg)  |                         | Internal: 1 embedded atmospheric pressure sensor   |  |  |  |
| Pressure module: 1-10 times/sec selectable (3 as default)   Barometer: 1 time/sec  | Barometric Accuracy     | ±55 Pa   |  |  |  |
| Barometer: 1 time/sec 4000mAh, 14.4Wh explosion-proof intelligent lithium battery, charging time = 6-8 hours, battery can be charged independently Typical working time 100 hours (measurement mode)  Guaranteed temperature range of technical specifications: (-10 - 50)°C *Temperature coefficient: ±5 ppm FS/°C (-20 to -10)°C *Temperature coefficient: ±6 ppm FS/°C (-20 to -1 |                         | mV, V, mA & frequency: 3 times/sec   |  |  |  |
| Power 4000mAh, 14.4Wh explosion-proof intelligent lithium battery, charging time = 6-8 hours, battery can be charged independently Typical working time 100 hours (measurement mode)  Guaranteed temperature range of technical specifications: (-10 ~ 50)°C Temperature coefficient: ±5 ppm FS°C (+20 to -10)°C  Operating temperature: (-20 - 50)°C  Storage temperature: (-30 ~ 70)°C  Humidity: 0% to 95% RH, non-condensing Altitude: 3000 meters  10 min to fully meet technical specifications  Port Protection Voltage  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4  Class I, Zone 0, AEx ia IIC T4 Ga  Ta = -20°Cto + 50°C Ex ia IIC T4 Ga  UKCA-EX  CE Certification  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  IP67, 1 meter drop test  Communication  Isolate USB-Type C (slave), Bluetooth  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 lb (0.9 kg)  | Measurement Rate        | Pressure module: 1~10 times/sec selectable (3 as default)                                    |  |  |  |
| Typical working time 100 hours (measurement mode)  Guaranteed temperature range of technical specifications: (-10 ~ 50)°C  *Temperature coefficient ±5pm FSF°C (-20 to -10)°C  Operating temperature: (-30 ~ 70)°C  Humidity: 0% to 95% RH, non-condensing  Altitude: 3000 meters  Warm-up Time 10 min to fully meet technical specifications  Port Protection Voltage 30V max  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4  Class I, Zone 0, AEx ia IIC T4 Ga  Ta = -20°Cto + 50°C Ex ia IIC T4 Ga  UKCA-EX  CE Certification TUV IEC61326, IEC61010  Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test  Communication Isolate USB-Type C (slave), Bluetooth  Display 4,4-inch color display capacitive screen, transflective, with LED backlight  Size 6,97" x 4,13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1,98 lb (0,9 kg)   |                         | Barometer: 1 time/sec  |  |  |  |
| Temperature coefficient: ±5 ppm FS/*C (-20 to -10)*C   | Power                   |  |  |  |  |
| Environmental  Storage temperature: (-30 ~ 70)°C Humidity: 0% to 95% RH, non-condensing Altitude: 3000 meters  10 min to fully meet technical specifications  90V max  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4 Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°Cto + 50°C Ex ia IIC T4 Ga UKCA-EX  CE Certification  Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test  Communication Isolate USB-Type C (slave), Bluetooth  Display 4.4-inch color display capacitive screen, transflective, with LED backlight  Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)  |                         |  |  |  |  |
| Humidity: 0% to 95% RH, non-condensing Altitude: 3000 meters  10 min to fully meet technical specifications  Port Protection Voltage  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4  Class I, Zone 0, AEx ia IIC T4 Ga  Ta = -20°Cto + 50°C Ex ia IIC T4 Ga  UKCA-EX  CE Certification  TUV IEC61326, IEC61010  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  IP67, 1 meter drop test  Communication  Isolate USB-Type C (slave), Bluetooth  Display  4.4-inc color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 lb (0.9 kg)   |                         | Operating temperature: (-20 ~ 50)°C  |  |  |  |
| Altitude: 3000 meters  Warm-up Time 10 min to fully meet technical specifications  Port Protection Voltage 30V max  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4   | Environmental           | Storage temperature: (-30 ~ 70)°C  |  |  |  |
| Warm-up Time 10 min to fully meet technical specifications  30V max  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4 Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°Cto + 50°C Ex ia IIC T4 Ga UKCA-EX  CE Certification TUV IEC61326, IEC61010  Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test Communication Isolate USB-Type C (slave), Bluetooth  Display 4.4-inch color display capacitive screen, transflective, with LED backlight  Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)  |                         | Humidity: 0% to 95% RH, non-condensing   |  |  |  |
| Port Protection Voltage  ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4 Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°Cto + 50°C Ex ia IIC T4 Ga UKCA-EX  CE Certification  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  IP67, 1 meter drop test  Communication  Isolate USB-Type C (slave), Bluetooth  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 lb (0.9 kg)  |                         | Altitude: 3000 meters  |  |  |  |
| ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  CSA: Class I, Division 1, Group A,B,C and D, T4  Class I, Zone 0, AEx ia IIC T4 Ga  Ta = -20°Cto + 50°C Ex ia IIC T4 Ga  UKCA-EX  CE Certification  TUV IEC61326, IEC61010  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  IP67, 1 meter drop test  Communication  Isolate USB-Type C (slave), Bluetooth  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 lb (0.9 kg)  | Warm-up Time            | 10 min to fully meet technical specifications  |  |  |  |
| Explosion-proof Grade  CSA: Class I, Division 1, Group A,B,C and D, T4 Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°Cto + 50°C Ex ia IIC T4 Ga UKCA-EX  CE Certification  TUV IEC61326, IEC61010  Rohs Compliance  Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level  IP67, 1 meter drop test  Communication  Isolate USB-Type C (slave), Bluetooth  Display  4.4-inch color display capacitive screen, transflective, with LED backlight  Size  6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight  1.98 lb (0.9 kg)   | Port Protection Voltage | 30V max  |  |  |  |
| Class I, Zone 0, AEx ia IIC T4 Ga Ta = -20°Cto + 50°C Ex ia IIC T4 Ga UKCA-EX  CE Certification TUV IEC61326, IEC61010  Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test Communication Isolate USB-Type C (slave), Bluetooth Display 4.4-inch color display capacitive screen, transflective, with LED backlight Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)  |                         | ATEX & IECEX: Ex ia IIC T4 Ga (Ta = -20°Cto + 50°C)  |  |  |  |
| CE Certification TUV IEC61326, IEC61010 Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test Communication Isolate USB-Type C (slave), Bluetooth Display 4.4-inch color display capacitive screen, transflective, with LED backlight Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex. Weight 1.98 lb (0.9 kg)   | Explosion-proof Grade   | Class I, Zone 0, AEx ia IIC T4 Ga  |  |  |  |
| Rohs Compliance Rohs II Directive 2011/65/EU, EN50581:2012  Protection Level IP67, 1 meter drop test Communication Isolate USB-Type C (slave), Bluetooth  Display 4.4-inch color display capacitive screen, transflective, with LED backlight Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)   |                         | UKCA-EX  |  |  |  |
| Protection Level IP67, 1 meter drop test  Communication Isolate USB-Type C (slave), Bluetooth  Display 4.4-inch color display capacitive screen, transflective, with LED backlight  Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)   | CE Certification        | TUV IEC61326, IEC61010   |  |  |  |
| Communication Isolate USB-Type C (slave), Bluetooth  Display 4.4-inch color display capacitive screen, transflective, with LED backlight  Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)   | Rohs Compliance         | Rohs II Directive 2011/65/EU, EN50581:2012   |  |  |  |
| Display 4.4-inch color display capacitive screen, transflective, with LED backlight  Size 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.  Weight 1.98 lb (0.9 kg)  | Protection Level        | IP67, 1 meter drop test  |  |  |  |
| Size       6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.         Weight       1.98 lb (0.9 kg)  | Communication           | Isolate USB-Type C (slave), Bluetooth  |  |  |  |
| Weight 1.98 lb (0.9 kg)  | Display                 | 4.4-inch color display capacitive screen, transflective, with LED backlight                  |  |  |  |
|  | Size                    | 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm) which doesn't include bottom ADT158Ex.       |  |  |  |
| Warranty Time 1 year   | Weight                  | 1.98 lb (0.9 kg)   |  |  |  |
| Tanany Time 1 year   | Warranty Time           | Time 1 year  |  |  |  |

## **Electrical Specifications**

| Specification             | Range   | Accuracy                  | Resolution              | Note                        |  |  |
|---------------------------|---|---------------------------|-------------------------|-----------------------------|--|--|
| Voltage Messurement       | ±300mV  | 0.015%RDG + 0.005%FS      | 1uV                     | Impedance: >100MΩ           |  |  |
| Voltage Measurement       | ±30V  | 0.015%RDG + 0.005%FS      | 0.1mV                   | Impedance: >1M $\Omega$     |  |  |
| Current Measurement       | ±30mA 0.015%RDG + 0.005%FS 0.1uA Impedance: < 4                                   |                           |                         | Impedance: < 40Ω            |  |  |
| Eraguanay Magauramant     | 0.01~50000Hz (auto range)   | 0.005% RDG + 2 last digit | 6-digit auto-resolution | Min threshold voltage: 2.5V |  |  |
| Frequency Measurement     | Units: Hz, kHz, MHz, CPM, CPH, s, ms, us  |                           |                         |                             |  |  |
| Switch On-Off Measurement | Inspection voltage: (3 ~ 30)V Response speed: < 10ms, supports wet and dry switch |                           |                         |                             |  |  |
| Pulse Count               | 0 ~ 9999999, optional rising edge and falling edge<br>Min threshold voltage: 2.5V |                           |                         |                             |  |  |
| Loop Power                | $20V \pm 10\%$ , max output impedance: $320\Omega$ , max load current: $25mA$     |                           |                         |                             |  |  |

## PRESSURE TECHNICAL SPECIFICATIONS

| Specifications   |  |  |
|--|--|--|
| Pressure resolution  | 4, 5, or 6 digit resolution (user selectable)  |  |
| Temperature Compensation   | -10°C~50 °C  |  |
| Pressure Module Type   | Built-in digital pressure module: ADT158Ex, for more detailed information, please see ADT 158Ex datasheet. External digital pressure module: ADT161Ex, for more detailed information, please see ADT 161Ex datasheet.  |  |
| Specifications   | Refer to the technical specification of the ADT158Ex and ADT161Ex  |  |
| High Static Pressure and<br>Differential Pressure<br>Synthesis Index | Two modules must be with the same range; Typical Differential pressure accuracy of 0.002%FS or 0.02%RD, whichever is greater when using two 0.02%FS external modules. Typical Differential pressure accuracy of 0.002%FS or 0.05%RD, whichever is greater when using two 0.05%FS external modules. |  |

Note: For more explanation, please reference application note "Achieving High Accuracy for High Static Differential Pressure Measurements"

## PRESSURE RANGE

| Gauge Pressure <sup>[1]</sup> |                |       |       |                |          |
|-------------------------------|----------------|-------|-------|----------------|----------|
| D/M                           | Pressure Range |       | Media | . (2/=2)       | Burst    |
| P/N                           | (psi)          | (bar) | [2]   | Accuracy (%FS) | Pressure |
| V15                           | -15            | -1.0  | G     | 0.02           | 3×       |
| GP2                           | 2              | 0.16  | G     | 0.05           | 3×       |
| GP5                           | 5              | 0.35  | G     | 0.05           | 3×       |
| GP10                          | 10             | 0.7   | G     | 0.02           | 3×       |
| GP15                          | 15             | 1.0   | G     | 0.02           | 3×       |
| GP30                          | 30             | 2.0   | G     | 0.02           | 3×       |
| GP50                          | 50             | 3.5   | G,L   | 0.02           | 3×       |
| GP100                         | 100            | 7.0   | G,L   | 0.02           | 3×       |
| GP150                         | 150            | 10    | G,L   | 0.02           | 3×       |
| GP300                         | 300            | 20    | G,L   | 0.02           | 3×       |
| GP500                         | 500            | 35    | G,L   | 0.02           | 3×       |
| GP600                         | 600            | 40    | G,L   | 0.02           | 3×       |
| GP1K                          | 1,000          | 70    | G,L   | 0.02           | 3×       |
| GP1.5K                        | 1,500          | 100   | G,L   | 0.02           | 3×       |
| GP2K                          | 2,000          | 140   | G,L   | 0.02           | 3×       |
| GP3K                          | 3,000          | 200   | G,L   | 0.02           | 3×       |
| GP5K                          | 5,000          | 350   | G,L   | 0.02           | 3×       |
| GP10K                         | 10,000         | 700   | G,L   | 0.02           | 2×       |
| GP15K                         | 15,000         | 1,000 | G,L   | 0.05           | 2x       |
| GP20K                         | 20,000         | 1,400 | G,L   | 0.05           | 1.5x     |
| GP25K                         | 25,000         | 1,600 | G,L   | 0.05           | 1.5x     |
| GP30K                         | 30,000         | 2,000 | G,L   | 0.05           | 1.5x     |
| GP36K                         | 36,000         | 2,500 | G,L   | 0.05           | 1.5x     |
| GP40K                         | 40,000         | 2,800 | G,L   | 0.05           | 1.35x    |
| GP50K                         | 50,000         | 3,500 | G,L   | 0.1            | 1.2x     |
| GP60K                         | 60,000         | 4,200 | G,L   | 0.1            | 1.1x     |

| Compound Pressure |                |           |       |          |                 |                  |
|-------------------|----------------|-----------|-------|----------|-----------------|------------------|
|                   | Pressure Range |           |       |          | Pressure Rating |                  |
| P/N               | psi            | bar       | Media | Accuracy | Burst           | Over<br>Pressure |
| CP2               | ±2             | ±0.16     | G     | 0.05% FS | Зх              | 1.2x             |
| CP5               | ±5             | ±0.35     | G     | 0.02% FS | Зх              | 1.2x             |
| CP10              | ±10            | ±0.7      | G     | 0.02% FS | Зх              | 1.2x             |
| CP15              | ±15            | ±1.0      | G     | 0.02% FS | Зх              | 1.2x             |
| CP30              | -15 to 30      | -1 to 2.0 | G     | 0.02% FS | Зх              | 1.2x             |
| CP50              | -15 to 50      | -1 to 3.5 | G     | 0.02% FS | Зх              | 1.2x             |
| CP100             | -15 to 100     | -1 to 7.0 | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP300             | -15 to 300     | -1 to 20  | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP500             | -15 to 500     | -1 to 35  | G,L   | 0.02% FS | 3x              | 1.2x             |
| CP600             | -15 to 600     | -1 to 40  | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP1K              | -15 to 1,000   | -1 to 70  | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP2K              | -15 to 2,000   | -1 to 140 | G,L   | 0.02% FS | 3x              | 1.2x             |
| CP3K              | -15 to 3,000   | -1 to 200 | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP5K              | -15 to 5,000   | -1 to 350 | G,L   | 0.02% FS | Зх              | 1.2x             |
| CP10K             | -15 to 10,000  | -1 to 700 | G,L   | 0.02% FS | 2x              | 1.2x             |

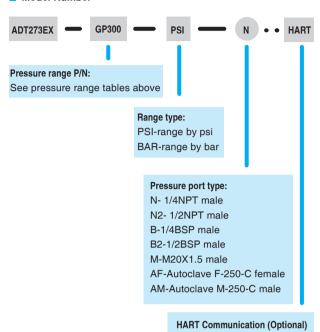


<sup>[1]</sup> Sealed gauge pressure for above 1000 psi [2] G=Gas, L=Liquid



## **ORDERING INFORMATION**

#### Model Number



**Note:** The ADT273Ex can be purchased without the ADT158Ex module if needed using the following part numbers.

ADT273EX-NO

ADT273EX-NO-HART (includes HART Communication)

| Accessories (included) |   |               |  |
|------------------------|---|---------------|--|
| Model number           | Description   | QTY           |  |
| 9811Ex-X               | 110V/220V external power adapter                      | 1 pc          |  |
| 9704Ex                 | Chargeable Li-ion battery                             | 1pc           |  |
| 9025                   | Test leads  | 1 set (3 pcs) |  |
| 9040                   | Hanging strap with magnet                             | 1 pc          |  |
| 9052Ex                 | Ex USB Cable type A to type C<br>(For Ex models only) | 1 pc          |  |
| 1310402101             | Module removal screwdriver                            | 1pc           |  |
|                        | ISO 17025 accredited calibration certificate          | 1 pc          |  |

| Optional Accessories |   |  |  |
|----------------------|---|--|--|
| Model number         | Description   |  |  |
| ADT158Ex             | Built-in digital pressure module (see ADT158Ex datasheet)   |  |  |
| ADT161Ex             | External digital pressure module (see ADT161 datasheet)   |  |  |
| 9060                 | Pressure module connection cable  |  |  |
| 9906A                | Hard carrying case for handheld instrument with accessories   |  |  |
| 9918-SC              | Soft carrying case, with space for handheld instrument, test leads, and accessories   |  |  |
| 9530-BASIC           | Additel/Acal Automated calibration software with asset management, basic version  |  |  |
| 9530-NET             | Additel/Acal Automated calibration software with asset management, network version, Includes server installation and 1 user license |  |  |







ADT158Ex pressure module - for use with ADT273Ex (bottom mount)