# Additel 226, 226Ex Multifunction Process Calibrator



- Sourcing, Simulating and Measuring Pressure, Temperature and Electrical Signals
- **■** Built-in Barometer
- Intrinsically Safe Models Available (Ex)
- Large Smartphone Like Touchscreen User Experience
- USB Type-C and Bluetooth Communications
- IP67 Rated
- High Voltage Mesurement Capability (300V AC)
- True RMS Voltage Meter Capability
- **Dual Channel Pressure Module Ports**
- High Static Differential Pressure Measurement 0.002% FS
- ISO 17025-accredited Calibration w/data Included







# **OVERVIEW**

Additel's new Multi-functional Process Calibrator series takes portability, functionality, and accuracy to a whole new level and packages it with an intuitive and easy to use color touchscreen display. The ADT226 is a powerful yet cost effective process calibrator, which has an ATEX certified intrinsically safe option - ADT226Ex allowing you to perform calibration work in the harshest of environments. We're confident these new tools will not only meet your calibration requirements but will make metrology simple for you!

#### **Features**

# Easy-to-use Cellphone Like Interface

The ADT226 series brings an all new user interface to the world of process calibrators. With a menu driven interface and small size/weight, the ADT226 is the industry's smallest multifunctional process calibrator with an intrinsically safe version to boot (ADT226Ex).

It adopts advanced human hand engineering design for the most convenient field handheld process calibrator available. The ADT226 has been developed with a powerful embedded operating system which solves common problems of other designs including slow response, cumbersome key operation, high power consumption and overall slow processing.



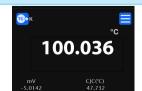
#### **Accuracy**



Additel's new and improved ADT226 series provides much improved accuracies including an electrical accuracy of 0.015% RD + 0.005% FS, high-static differential pressure mode accuracy to 0.002% FS and across the board improvements in temperature measurement accuracies.

#### **Thermocouple Measurement Performance**

The ADT226 series deliver highly improved thermocouple measurement capabilities by vastly improving the cold Jucntion compensation (CJC) specifications and a much improved stabalization time.



Rev # 20210701

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#### **Features**

#### Metrology Made Simple

### **Time Saving Features**



In addition to all the great features mentioned above, the ADT226 series is loaded with time saving features like our builtin pressure and temperature converter, thermal calculator, wiring diagram quide for assisting with electrical connections, a built-in diagnostic center including intelligent alarm messaging and a real time error report and comprehensive selftesting to help our customers get the very most out of their investment in Additel calibration tools.

#### Portable and Robust



The demands of remote calibration work can be challenging. The ADT226 series is lightweight and highly portable and utilizes an advanced color LCD screen to help ensure you can easily see, even in the (Ex) intrinsically safe versions.

All models in the ADT226 family have been designed with ruggedness and dependability in mind and meet IP67 standards with a 1-meter drop test, 4G vibration, xenon exposure and 130g steel ball drop testing of the display.

Other environmental conditions have also been considered, such as temperature and humidity. To combat these external elements, Additel has designed a unique internal circuit design and process technology to allow for the utmost confidence in your critical calibration and measurement work.

#### **Intrinsically Safe Option**

The Additel 226Ex series calibrators have passed the most stringent testing by certified organizations to acquire intrinsically safe certificates, ATEX, IECEX, CSA and UKCA. The explosion-proof grade (Ex ia IIC T4 Ga), can be widely used in potentially explosive environments, such as oil and gas platforms, oil refineries, chemical and petrochemical plants, pharmaceutical industries, energy and gas processing industries.

Each intrinsically safe calibrator has an advanced transflective color LCD display which has enhanced visibility when viewed in direct sunlight. No matter where youer work takes you, these calibrators are up to the task.



#### **Voltage Meter (RMS)**



The Additel 226 non-Ex version is equipped with "true effective value" RMS measuring function, which can measure the RMS of various waveforms with no need to consider distortion or waveform parameters and different errors caused by different waveforms

# **Targeted application features**

The onboard applications provide a useful selection of features including high static differential pressure mode, pressure leak test, safety valve test, analog transmitter calibration, unit converter, thermal calculator, and snapshots to name a few.

High static differential pressure mode uses two sensors, unique calculation technology to achieve a differential pressure measurement to 0.002% FS at high static pressures. The leak test will automatically calculate the pressure drop to determine a leak condition. The safety valve test is a specialized task which captures the exact pressure release point by taking 10 readings per second during a valve crack test.

You will find this and much more as we continue to develop new apps at Additel.



#### Connectivity & Battery



Users can remotely connect mobile devices to the ADT226 via Bluetooth and Wi-Fi communication with an unobstructed distance up 20 meters. The included USB type-C comm port and cable provide a hard wired communication option as well as charging for the removeable Li-ion battery, which provides up to 35 hours of run time.

Phone: 714-998-6899 Email: sales@additel.com Rev # 20210701





# **Electrical Specification**

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|-----------|------|--------|
|           |      |        |

| Source Accuracy       |  |                        |                           |                    |                        |                           |  |
|-----------------------|--|------------------------|---------------------------|--------------------|------------------------|---------------------------|--|
| Specifications        |  | ADT226                 |                           | ADT226Ex           |                        |                           |  |
| Specifications        | Range  | Resolution             | Accuracy                  | Range              | Resolution             | Accuracy                  |  |
| Voltage DC            | 0 to 15 V  | 0.1 mV                 | 0.015%RDG+0.005%FS        | 0 to 10.5 V        | 0.1 mV                 | 0.02%RDG+0.005%FS         |  |
| Current DC            | 0 to 25 mA   | 0.1 uA                 | 0.015%RDG+0.005%FS        | 0 to 25 mA         | 0.1 uA                 | 0.02%RDG+0.005%FS         |  |
| Resistance            | 0 to 400 $\Omega$  | 1 mΩ                   | 0.015%RDG+0.005%FS        | 0 to 400 $\Omega$  | 1 mΩ                   | 0.02%RDG+0.005%FS         |  |
| ricolotarioc          | 0 to 4000 Ω  | 10 mΩ                  | 0.015%RDG+0.005%FS        | 0 to 4000 Ω        | 10 mΩ                  | 0.02%RDG+0.005%FS         |  |
| Frequency             | 0.01 to 50000.0 Hz   | Auto range,<br>6-digit | 0.005%RDG+5 on last digit | 0.01 to 50000.0 Hz | Auto range,<br>6-digit | 0.005%RDG+5 on last digit |  |
| Voltage mV<br>(TC)    | -10 to 75 mV   | 0.1 uV                 | 0.015%RDG + 0.005%FS      | -10 to 75 mV       | 0.1 uV                 | 0.02%RDG+0.005%FS         |  |
|                       | 0 to 9999999   | 1                      | N/A                       | 0 to 9999999       | 1                      | N/A                       |  |
| Pulse                 | Optional rising edge and falling edge, minimum threshold voltage: 2.5V |                        |                           |                    |                        |                           |  |
| Loop power (max 25mA) | 24 V   | N/A                    | ±1 V                      | 20 V               | N/A                    | ± 10%                     |  |

| (max 25mA)                 | 14/71   |                                       | ±. •                                     |           | 20 1                               | 14// (     | 1070                  |
|----------------------------|---|---------------------------------------|--|-----------|------------------------------------|------------|-----------------------|
| Measurement Accuracy Cont. |   |                                       |  |           |                                    |            |                       |
| 0151                       | ADT226  |                                       |  | ADT226Ex  |                                    |            |                       |
| Specifications             | Range   | Resolution                            | Accuracy                                 |           | Range                              | Resolution | Accuracy              |
|                            | -300 to 300 mV  | 1 μV                                  | 0.015% RDG + 0.00                        | 05% FS    | -300 to 300 mV                     | 1µV        | 0.02% RDG + 0.005% FS |
| V-lh DO                    | -30 to 30 V   | 0.1 mV                                | 0.015%RDG+0.00                           | 5%FS      | -30 to 30 V                        | 0.1 mV     | 0.02% RDG + 0.005% FS |
| Voltage DC                 | Temperature Coefficie   | nt: ±5 ppm FS                         | S/°C (-10°C to 10°C a                    | nd 30°C t | to 50°C)                           |            |                       |
|                            | Impedance: -300 mV to 3   | o 300 mV = ><br>0 V = >1 MΩ           | 100 ΜΩ                                   |           |                                    |            |                       |
|                            | -3 to 3 V   | 0.1 mV                                | 0.05% RDG + 0.0                          | 1% FS     |                                    |            |                       |
|                            | -30 to 30 V   | 1 mV                                  | 0.05% RDG + 0.0                          | 1% FS     |                                    |            |                       |
|                            | -300 to 300 V   | 10 mV                                 | 0.05% RDG + 0.0                          | 1% FS     |                                    |            |                       |
| DC High Voltage            | Temperature coefficient: ±0.0025% FS/°C<br>(-10°C to 10°C and 30°C to 50°C) |                                       |  |           | N/A                                |            |                       |
|                            | The highest input voltage is 300 V, IEC61010 300V CATII                     |                                       |  |           |                                    |            |                       |
|                            | Commong mode rejection: >100 dB (at 50 or 60 Hz)                            |                                       |  |           |                                    |            |                       |
|                            | Impedance: > 4 MΩ, DC coupling  |                                       |  |           |                                    |            |                       |
|                            | 3V (40 to 500 Hz)   | 0.1 mV                                | 0.5% RDG + 0.05                          | % FS      |                                    |            |                       |
|                            | 30V (40 to 500 Hz)  | 1 mV                                  | 0.5% RDG + 0.05                          | % FS      |                                    |            |                       |
|                            | 300V (40 to 500 Hz)   | 10 mV                                 | 0.5% RDG + 0.05                          | % FS      |                                    |            |                       |
| AC High Voltage            | Temperature coefficier  |                                       | RD + 0.0025% FS)<br>10°C and 30°C to 50° |           |                                    | N/A        |                       |
|                            | The highest input voltage is 300 V, IEC61010 300V CATII                     |                                       |  |           |                                    |            |                       |
|                            | 9% to 100% of range is suitable for the above accuracy indicators           |                                       |  |           |                                    |            |                       |
|                            | Impedance: >4 MΩ, <1  | Impedance: >4 MΩ, <100pF, AC coupling |  |           |                                    |            |                       |
| 0 100                      | -30 to 30 mA  | 0.1 μΑ                                | 0.015% RDG + 0.00                        | 05% FS    | -30 to 30 mA                       | 0.1 μΑ     | 0.02% RDG + 0.005% FS |
| Current DC                 | Temperature Coefficie   | nt: ±5ppm FS/                         | ′°C (-10°C to 10°C an                    | d 30°C to | to 50°C), Impedance: < 40 $\Omega$ |            |                       |
|                            | 0 to 400 Ω  | 1 mΩ                                  | 0.015% RDG + 0.00                        | 5% FS     | 0 to 400 Ω                         | 1 mΩ       | 0.02% RDG + 0.005% FS |
|                            | 0 to 4000 Ω   | 10 mΩ                                 | 0.015% RDG + 0.00                        | 5% FS     | 0 to 4000 Ω                        | 10 mΩ      | 0.02% RDG + 0.005% FS |
| Resistance (4-Wire)        | Temperature coeficient: ±5 ppm FS/°C (-10°C to 10°C and 30°C to 50°C)       |                                       |  |           |                                    |            |                       |
|                            | 2-Wire + 50 mΩ, 3-wire  | + 10 mΩ                               |  |           |                                    |            |                       |
|                            |   |                                       |  |           |                                    |            |                       |

Excitation current: 0.25 mA

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# **SPECIFICATIONS**

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| Measurement Accuracy Cont. |  |                        |                                 |                  |                        |                              |  |
|----------------------------|--|------------------------|---------------------------------|------------------|------------------------|------------------------------|--|
| Smaaifiaatiana             | ADT226   |                        |                                 | ADT226Ex         |                        |                              |  |
| Specifications             | Range  | Resolution             | Accuracy                        | Range            | Resolution             | Accuracy                     |  |
|                            | -10 to 75 mV   | 0.1 μV                 | 0.015% RDG + 0.005% FS          | -10 to 75 mV     | 0.1 μV                 | 0.02% RDG + 0.005% FS        |  |
| Voltage mV (TC)            | Temperature Coefficient: ±5ppm FS/°C (-10°C to 10°C and 30°C to 50°C)                |                        |                                 |                  |                        |                              |  |
|                            | Impedance: >100 M $\Omega$   |                        |                                 |                  |                        |                              |  |
|                            | 0.01 to 50000 Hz   | Auto range,<br>6-digit | 0.005% RDG + 5 on last<br>digit | 0.01 to 50000 Hz | Auto range,<br>6-digit | 0.005% RDG + 5 on last digit |  |
| Frequency                  | Minimum threshold voltage: 2.5 V   |                        |                                 |                  |                        |                              |  |
|                            | Supported units: Hz, kHz, MHz, CPM, CPH, s, ms, µs                                   |                        |                                 |                  |                        |                              |  |
| Pulse                      | 0 to 9999999   | 1                      | N/A                             | 0 to 9999999     | 1                      | N/A                          |  |
| ruise                      | Optional rising edge and falling edge, minimum threshold voltage: 2.5V               |                        |                                 |                  |                        |                              |  |
| Switch                     | Support for dry or wet switch, voltage range of 3 to 30 V, response speed of < 10 ms |                        |                                 |                  |                        |                              |  |

# **Genreal Specification**

| Specifications                             | ADT226  | ADT226Ex  |  |  |  |
|--|---|---|--|--|--|
| Operating Temperature                      | -10°C to 50°C   | -10°C to 50°C   |  |  |  |
| Specification guaranteed temperature range | 10°C to 30°C  | 10°C to 30°C  |  |  |  |
| Storage Temperature                        | -20°C to 70°C   | -20°C to 70°C   |  |  |  |
| Humidity                                   | <95%, non-condensing  | <95%, non-condensing  |  |  |  |
| Power supply                               | 6600mAh, 23.8Wh lithium battery, charging time 4~6 hours, battery pack can be charged independently | 4000mAh 14.4Wh Explosion-proof lithium battery packcharging time 6~8 hours, battery pack can be charged independently |  |  |  |
| User interface                             | Icon drive menus  | Icon driven menus with navigation buttons   |  |  |  |
| Ports protection voltage                   | 50V max   | 30V max   |  |  |  |
| Display                                    | 5.0 inch 480 x 800 mm TFT LCD capacitive screen   | 4.4 inch 640 x 480 mm color display capacitive screen   |  |  |  |
| Maximum altitude                           |   | 3000 meters   |  |  |  |
| European Compliance                        | CE Mark   |   |  |  |  |
| Electrical Connection                      | Ø4mm sockets and flat mini-jack thermocouple socket   |   |  |  |  |
| Size                                       | 6.97" x 4.13" x 2.04" (177 mm x 105 mm x 52 mm)   |   |  |  |  |
| Weight                                     | 1.6 lb (0.7 kg)   | 1.65 lb (0.75Kg)  |  |  |  |
| Battery                                    | Rechargeable Li-ion battery (included)  |   |  |  |  |
| Battery Life                               | Typically 16 hours  | Typically 35 hours  |  |  |  |
| Battery Charge                             | 110V/220V external power adapter included. Battery ca   | n be charged external to the unit. Typically charge time is 6-8 hours.  |  |  |  |
| External pressure module                   | Dual channel aerial plug, ca  | an connect two digital pressure modules   |  |  |  |
| Warm-up time                               | Full specification performance is achieved after a 10 minute warm-up time.                          |   |  |  |  |
| ROHS compliant                             | Rohs II Directive 2011/65/EU, EN50581:2012  |   |  |  |  |
| Display rate                               | 3 readings per second   |   |  |  |  |
| Barometric Accuracy (Built-in barometer)   | 50Pa  |   |  |  |  |
| IP protection level                        | IP67, 1 meter drop test   |   |  |  |  |
| Communication                              | Isolate USB-TYPEC (slave), Bluetooth BLE  |   |  |  |  |
| Calibration                                | ISO 17025 accredited calibration with data  |   |  |  |  |
|  |   |   |  |  |  |

# **Pressure Specification**

# Pressure Specification( ADT226 & ADT226Ex)

The 161 series Intelligent Digital Pressure Modules are available for gauge, vacuum and absolute pressure from -15 psi to 60,000 psi (-1 bar to 4200 bar). Accuracy from 0.02% FS includes operation over 14°F to 122°F (-10°C to 50°C), one year stability and calibration uncertainty. For detailed specifications, please refer to the pressure modules datasheet.



# **SPECIFICATIONS**

# **Temperature Specification**

|     | ADT226      |              |                           |                  |            | ADT226Ex     |                              |                  |  |
|-----|-------------|--------------|---------------------------|------------------|------------|--------------|------------------------------|------------------|--|
|     |             |              | ADIZZO                    | Accuracy (°C)    |            |              | ADIZZOLA                     | Accuracy (°C)    |  |
| уре | Standard    | Temperatu    | re Range (°C)             | Measure / Source | Standard   | Temperatur   | e Range (°C)                 | Measure / Source |  |
|     |             |              | -50~0                     | 0.96             |            |              | -50~100                      | 0.96             |  |
| s   | IEC 584     | -50 to 1768  | 0~100                     | 0.69             | IEC 584    | -50 to 1768  | 100~1000                     | 0.69             |  |
| •   | 120 00 1    | 00 10 1700   | 100~1768                  | 0.64             | 120 00 1   | 00 10 17 00  | 1000~1768                    | 0.73             |  |
|     |             |              | -50~0                     | 1.02             |            |              | -50~0                        | 1.03             |  |
| R   | IEC 584     | -50 to 1768  | 0~200                     | 0.71             | IEC 584    | -50 to 1768  | 0~200                        | 0.71             |  |
|     | 120 004     | 00 10 1700   | 200~1768                  | 0.56             | 120 004    | 30 10 1700   | 200~1768                     | 0.65             |  |
|     |             |              | 200~300                   | 1.89             |            |              | 200~300                      | 1.90             |  |
|     |             |              | 300~500                   | 1.25             | -          |              | 300~500                      | 1.26             |  |
| В   | IEC 584     | 0 to 1820    | 500~800                   | 0.78             | IEC 584    | 0 to 1820    | 500~800                      | 0.79             |  |
|     |             |              | 800~1820                  | 0.55             | $\dashv$   |              | 800~1820                     | 0.79             |  |
|     |             |              | -250 to -200              | 0.97             |            |              | -250 to -200                 | 1.04             |  |
|     |             |              | -200 to -100              | 0.30             | -          |              | -200 to -200                 | 0.32             |  |
| K   | IEC 584     | -270 to 1372 | -100 to 600               | 0.30             | IEC 584    | -270 to 1372 | -100 to 600                  | 0.32             |  |
|     |             |              | 600 to 1372               | 0.16             | -          |              | 600 to 1372                  | 0.43             |  |
|     |             |              |                           |                  |            |              |                              |                  |  |
| N   | IEC 504     | -270 to 1300 | -250 to -200              | 1.50<br>0.44     | IEC 584    | -270 to 1300 | -250 to -200                 | 1.58<br>0.46     |  |
| N   | IEC 584     |              | -200 to -100              |                  |            |              | -200 to -100<br>-100 to 1300 |                  |  |
|     |             |              | -100 to 1300<br>-250~-200 | 0.30<br>0.54     |            |              | -250~-200                    | 0.37<br>0.59     |  |
| E   | IEC 584     | -270 to 1000 | -200~-100                 | 0.20             |            |              | -200~-200<br>-200~-100       | 0.39             |  |
|     |             |              |                           |                  | IEC 584    | -270 to 1000 |                              |                  |  |
|     |             |              | -100~700                  | 0.15<br>0.20     | _          |              | -100~700                     | 0.18             |  |
|     |             |              | 700~1000                  |                  |            | -210~1200    | 700~1000                     | 0.25             |  |
| J   | 150 504     | 010 1000     | -210~-100                 | 0.26             | 150 504    |              | -210~-100                    | 0.28             |  |
| J   | IEC 584     | -210~1200    | -100~700                  | 0.15             | IEC 584    |              | -100~700                     | 0.19             |  |
|     |             |              | 700~1200                  | 0.25             |            |              | 700~1200                     | 0.31             |  |
| _   | 150 504     | -270 to 400  | -250~-100                 | 0.74             | 150 504    | -270 to 400  | -250~-100                    | 0.79             |  |
| Т   | IEC 584     |              | -100~0                    | 0.15             | IEC 584    |              | -100~0                       | 0.16             |  |
|     |             |              | 0~400                     | 0.11             |            |              | 0~400                        | 0.13             |  |
| _   | 40714 5000  | 0. 0045      | 0 to 1000                 | 0.35             | 40714 5000 | 0.1.0045     | 0 to 1000                    | 0.40             |  |
| С   | ASTM E988   | 0 to 2315    | 1000 to 1800              | 0.62             | ASTM E988  | 0 to 2315    | 1000 to 1800                 | 0.73             |  |
|     |             |              | 1800 to 2315              | 1.02             |            |              | 1800 to 2315                 | 1.22             |  |
|     |             |              | 0~100                     | 0.39             |            |              | 0~100                        | 0.39             |  |
| D   | ASTM E988   | 0~2315       | 100~1200                  | 0.37             | ASTM E988  | 0~2315       | 100~1200                     | 0.43             |  |
|     |             |              | 1200~2000                 | 0.65             |            |              | 1200~2000                    | 0.77             |  |
|     |             |              | 2000~2315                 | 1.03             |            |              | 2000~2315                    | 1.24             |  |
|     |             |              | 50~100                    | 1.12             | 4          |              | 50~100                       | 1.12             |  |
| •   | A OTA - 1-5 | 0. 65.5      | 100~200                   | 0.72             |            |              | 100~200                      | 0.72             |  |
| G   | ASTM E1751  | 0 to 2315    | 200~400                   | 0.45             | ASTM E1751 | 0 to 2315    | 200~400                      | 0.46             |  |
|     |             |              | 400~1500                  | 0.37             | 4          |              | 400~1500                     | 0.43             |  |
|     |             |              | 1500~2315                 | 0.77             |            |              | 1500~2315                    | 0.92             |  |
|     |             |              | -200 to -100              | 0.15             |            |              | -200 to -100                 | 0.16             |  |
| L   | DIN43710    | -200 to 900  | -100 to 400               | 0.13             | DIN43710   | -200 to 900  | -100 to 400                  | 0.14             |  |
|     |             |              | 400 to 900                | 0.17             |            |              | 400 to 900                   | 0.20             |  |
| U   | DIN43710    | -200 to 600  | -200 to 0<br>0 to 600     | 0.28<br>0.13     | DIN43710   | -200 to 600  | -200 to 0<br>0 to 600        | 0.29<br>0.15     |  |

Note: Internal CJC is  $\pm 0.15^{\circ}$ C (-10°C to 50°C ambient temperature) Accuracy with external cold junction only, for internal cold junction add 0.15  $^{\circ}$ C (k=2)

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# **SPECIFICATIONS**

| RTD Measurement and Source Accuracy |             |                       |               |          |  |
|-------------------------------------|-------------|-----------------------|---------------|----------|--|
| M                                   | _           |                       | Accuracy (°C) |          |  |
| Measure and Simulate                | <b>"</b>    | emperature Range (°C) | ADT226        | ADT226Ex |  |
|                                     |             | -200~200              | 0.62          | 0.64     |  |
| PT10(385)                           | -200 to 850 | 200~600               | 0.77          | 0.82     |  |
|                                     |             | 600~850               | 0.88          | 0.95     |  |
|                                     |             | -200~200              | 0.29          | 0.31     |  |
| PT25(385)                           | -200 to 850 | 200~600               | 0.40          | 0.44     |  |
|                                     |             | 600~850               | 0.47          | 0.54     |  |
|                                     |             | -200~200              | 0.18          | 0.20     |  |
| PT50(3916)                          | -200 to 850 | 200~600               | 0.27          | 0.32     |  |
|                                     |             | 600~850               | 0.34          | 0.40     |  |
| PT100(385)                          |             | -200~200              | 0.13          | 0.15     |  |
| PT100(391)<br>PT100(3916)           | -200 to 850 | 200~600               | 0.21          | 0.26     |  |
| PT100(3916)                         |             | 600~850               | 0.27          | 0.34     |  |
| · ,                                 | -200 to 850 | -200~200              | 0.34          | 0.12     |  |
| DT000(005)                          |             | 200~300               | 0.37          | 0.40     |  |
| PT200(385)                          |             | 300~600               | 0.46          | 0.51     |  |
|                                     |             | 600~850               | 0.54          | 0.61     |  |
|                                     | -200 to 850 | -200~0                | 0.17          | 0.06     |  |
| DT 400 (005)                        |             | 0~200                 | 0.21          | 0.23     |  |
| PT400(385)                          |             | 200~600               | 0.30          | 0.35     |  |
|                                     |             | 600~850               | 0.37          | 0.44     |  |
|                                     |             | -200~200              | 0.18          | 0.20     |  |
| PT500(385)                          | -200 to 850 | 200~600               | 0.27          | 0.32     |  |
|                                     |             | 600~850               | 0.34          | 0.40     |  |
|                                     |             | -200~200              | 0.13          | 0.15     |  |
| PT1000(385)                         | -200 to 850 | 200~600               | 0.21          | 0.26     |  |
|                                     |             | 600~850               | 0.27          | 0.34     |  |
| Cu10(427)                           | -200~260    | -200~260              | 0.59          | 0.61     |  |
| Cu50(428)                           | 200~260     | -200~260              | 0.15          | 0.17     |  |
| Cu100(428)                          | -200~260    | -200~260              | 0.10          | 0.12     |  |
| Ni100(617)                          | 60.400      | -60~0                 | 0.06          | 0.07     |  |
| Ni100(618)                          | -60~180     | 0~180                 | 0.06          | 0.08     |  |
| Ni120(672)                          | 80~260      | -80~260               | 0.06          | 0.07     |  |
| Ni1000                              | -50~150     | -50~150               | 0.08          | 0.09     |  |

<sup>\*</sup>Note: Ambient temperature of  $20^{\circ}C \pm 10^{\circ}C$ .

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<sup>4-</sup>wire accuracy. For 2-wire add 50 m $\Omega,$  for 3-wire add 10 m $\Omega$ 

# Metrology Made Simple

# **ORDERING INFORMATION**

Model Number

ADT226

ADT226 ADT226Ex: Intrisically Safe

| Accessories (included) |   |               |  |  |  |
|------------------------|---|---------------|--|--|--|
| Model number           | Description                                     | QTY           |  |  |  |
| 9811-X                 | 110V/220V external power adapter                | 1 pc          |  |  |  |
| 9704                   | Chargeable Li-ion battery                       | 1 pc          |  |  |  |
| 9023                   | Test leads                                      | 1 set (6 pcs) |  |  |  |
| 9027                   | Right angle test leads kit                      | 1 set (2 pcs) |  |  |  |
| 9060                   | Pressure module connection cable (only for 226) | 1 pc          |  |  |  |
| 9040                   | Hanging strap with magnet                       | 1 pc          |  |  |  |
|                        | Manual  | 1 pc          |  |  |  |
|                        | ISO 17025 accredited calibration certificate    | 1 pc          |  |  |  |

| Optional Accessories | Optional Accessories  |  |  |  |  |
|----------------------|---|--|--|--|--|
| Model number         | Description   |  |  |  |  |
| ADT161Ex - XXX       | Intelligent Digital Pressure Modules  |  |  |  |  |
| 9060                 | Pressure module connection cable  |  |  |  |  |
| 9081                 | U type TC MINI-TC cable   |  |  |  |  |
| 9052                 | USB Cable (TYPE - A to C)   |  |  |  |  |
| 9080                 | Cable kit (including TC plug, compensation cable, S,R,B,K,J,T,E,N)  |  |  |  |  |
| 9704                 | Spare chargeable Li-ion battery for multifunction calibrator  |  |  |  |  |
| 9811                 | 110 V/220 V external power adapter  |  |  |  |  |
| 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 Task management software for multifunction calibrator  |  |  |  |  |
| 9530-NET             | Additel/Acal Automated calibration software with asset management, network version, Includes server installation and 1 user license |  |  |  |  |

<sup>\*</sup> Additel/Land software can be downloaded for free at www.additel.com