

ADT-223A Documenting Process Calibrator



- Sourcing, simulating and measuring pressure, temperature and electrical signals
- Smartphone-like menu and interface make the operation simple
- HART Communication capability
- The internal cold junction compensation sensor can be re-calibrated at ice point by user
- Ultra-compact, 3.9" x 7.6" x 2.0", and 1.6 lb (0.7 kg)

OVERVIEW

A highly integrated multifunction calibrator featuring several patented technologies. The ADT-223A is an ultra-compact, rugged, and easy to use hand-held device for sourcing, simulating and measuring pressure, temperature, and electrical signals. Its smartphone-like menu and interface make the operation simple. With HART communication capability, the ADT-223A is ideal for calibrating, maintaining, and troubleshooting HART instrumentation. Automation and documentation capabilities make the ADT-223A a turnkey solution.

FEATURES

- **Sourcing, simulating and measuring temperature and electrical signals**
Sources and measures mV, mA, ohms, RTDs, thermocouples, frequency, and pulses
Simulates and measures 13 thermocouples and 11 RTDs to calibrate transmitters
Measures and sources pressure using ADT-160 series Intelligent Digital Pressure Modules from -15 psi to 10,000 psi (-1 bar to 700 bar)
24V loop power supply
Simultaneous dual reading capability
Automatic switch test
Supports square root transmitter
Pulse frequency output for the calibration of flow totalizer
- **Easy to use**
Smartphone-like menu and interface make the operation simpler and easier
Ultra-compact, size 3.9" x 7.6" x 2.0" (100mm x 192mm x 52mm), and weight 1.6 lb (0.7 kg)
One hand operation
- **Calibrated cold junction compensation (Patented)**
Cold junction equivalent block in the calibrator
A calibrated PRT element with flexible leads is installed in the equivalent block for thermocouple cold junction compensation
This PRT element can be pulled out from the calibrator and re-calibrated and corrected at ice point by users
- **Built-in temperature readout**
CVD coefficients of a calibrated PRT can be input into the calibrator for accurate temperature measurement.
- **Multi lingual interface**
English, German, French, Italian, Spanish, Portuguese, Simplified Chinese
(Traditional Chinese, Japanese and Russian are available per request)
- **Documenting and automated procedure capability**
Manage the information of the device under test. Set up automated calibration procedures, and ADT-223A performs the test, calculates the errors, displays and/or stores the results in the memory, and highlights the out-of-tolerance points. As-found and As-left functions allow recording and documenting results for quality control. Download tasks and upload the results. Snapshots allow you to capture and save work.
- **HART Communication capability**
Support HART[®] instrumentation
- **Build-in unit conversion tool**
Build-in converters for pressure units, temperature units, temperature vs. resistance (RTDs), and temperature vs millivolt (thermocouples)
- **Display**
3.5 inch TFT color screen
- **Rugged**
Rugged design for harsh environments.
Passed a 1-meter drop test.
Three years warranty for the ADT-223A, and one year for the battery pack
- **Misuse protection**
Up to 30V voltage on any two sockets and up to 1A current on current sockets will not damage the calibrator. The calibrator will return to normal condition as soon as the voltage or current is removed.
- **Rechargeable battery**
Rechargeable Li-ion battery for 15 hours uninterrupted use.
Battery life will be reduced when 24V is applied.
The rechargeable battery is replaceable.

