

Streamlining Pressure Sensor Validation With the PressureChecker



Non-invasive

This calibrated device ensures the accuracy and proper functioning of METTLER TOLEDO Pendotech Single-Use Pressure Sensors™ without the requirement to access the fluid path.



Hand-held

This compact hand-held enclosure includes all the necessary components to perform its intended function.



Internal Pressure Sensor Simulator

It can be used to verify the proper functioning of monitors such as the PressureMAT®, METTLER TOLEDO Pendotech Process Control Systems, or 3rd party monitors.



NIST Traceable

The calibration process can be traced back through an unbroken chain of comparisons to NIST's nationally recognized standards.



Calibrated PressureChecker Device For Verifying and Testing Single-Use Pressure Sensors

The PressureChecker™ is a portable, battery-operated device that verifies the accuracy of METTLER TOLEDO Pendotech Single-Use Pressure Sensors™ and monitors. It tests sensors in-situ without accessing the fluid path, detecting leaks by pressurizing through the test port and observing pressure drops. The device features a solid-state transducer and a pressure cylinder to measure static pressure from -6 to +10 psi. An adjustment knob regulates pressure displayed on the LCD, and a pneumatic port connects to the sensor test port for efficient testing. It is NIST traceable for annual calibration, suitable for various industrial settings, and can test monitor accuracy independently via a 4-pin connector.

At METTLER TOLEDO Pendotech, our Pressure Sensors are rigorously tested during manufacturing for quality. The PressureChecker™ enables real-time verification of sensor accuracy and consistency.

Product Information for PressureChecker Specifications

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|------------------------------------|--|
| Certified Operating Pressure Range | -6 to +10psi, 0.01psi resolution -400 to 700mbar, 1mbar resolution |
| Temperature Operating | 15°C to 40°C |
| Storage | -20°C to 65°C |
| Operating Humidity | 80% RH Max., Non-condensing |
| Accuracy | $\pm 1\%$ ($\pm 2\%$ above 7.50psi) or $\pm .02\text{psi}$ which ever is greater $\pm 1\%$ ($\pm 2\%$ above 600mbar) or $\pm 1\text{mbar}$ which ever is greater |
| Repeatability / Hysteresis | $\pm 0.15\%$ of full scale output |
| Over Pressure Rating | 14.5psi; 1000mbar |
| Pressure Sensor Simulator | Sensitivity: 0.2584mV/psi/volt $\pm 1\%$ Excitation: 2 to 10VDC Input Impedance: 3500ohms $\pm 10\%$ Output Impedance: <4000ohms Asymmetry: < 1% Unbalance: 1.45psi |
| Power Requirements | One 9 Volt battery |
| Battery Life | 150 hours constant use, 15 months intermittent use, low battery indicator (BAT) appears when voltage drops below 7.2volts |
| Display | 3.5inch LCD with 0.5inch high digits and negative polarity indicator (for vacuum indication) |
| Dimensions | 5.75 x 1.5 x 3.1inches (L x D x W) 146 x 38 x 79mm |
| Weight | 9.7 ounces (275 grams) |

Ordering Information

| | Order number |
|---|---------------|
| PressureChecker pressure sensor and monitor verification tool includes PDKT-650-905 | PDKT-650-950 |
| PressureChecker pressure sensor and monitor verification tool, millibar includes PDKT-650-905 | PDKT-650-950B |

Replacement parts:

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| 4 ft (1.22 m) connecting tube with luer slip | PDKT-650-905 |
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