# Druck DPI610E

The iconic Druck is back.

druck.com

Reliability is as important as accuracy for pressure calibration.

Celebrating 50 years' success across a range of industries and countless customer applications, Druck's DPI610E handheld pressure calibrator is the latest and the sixth generation of the DPI600 family.

In 1950, U.S. Time Company introduced the Timex wristwatch. At that time, nobody could have guessed how popular the product would become. The timepiece's straightforward design, accessible price point, and accuracy held broad appeal. But, those elements alone would not push the brand to become a household name. What made the watch unique was a special escapement for controlling motion. Unlike competitors, Timex used a cone-shaped balance forged from the alloy "Armalloy." The design and space-aged metal enabled the chronograph to endure rigours that would seize lesser brands. Realizing this appeal, the company began a hard-hitting advertising campaign around reliability.

For more than 40 years, consumers witnessed all kinds of "torture" of Timex watches. The company strapped them to the bows of boats, dropped them in rivers, and buried them in the sand. Every single time, the watches continued to work. U.S. Time proved that their watches could "Take a lickin' and keep on tickin'."
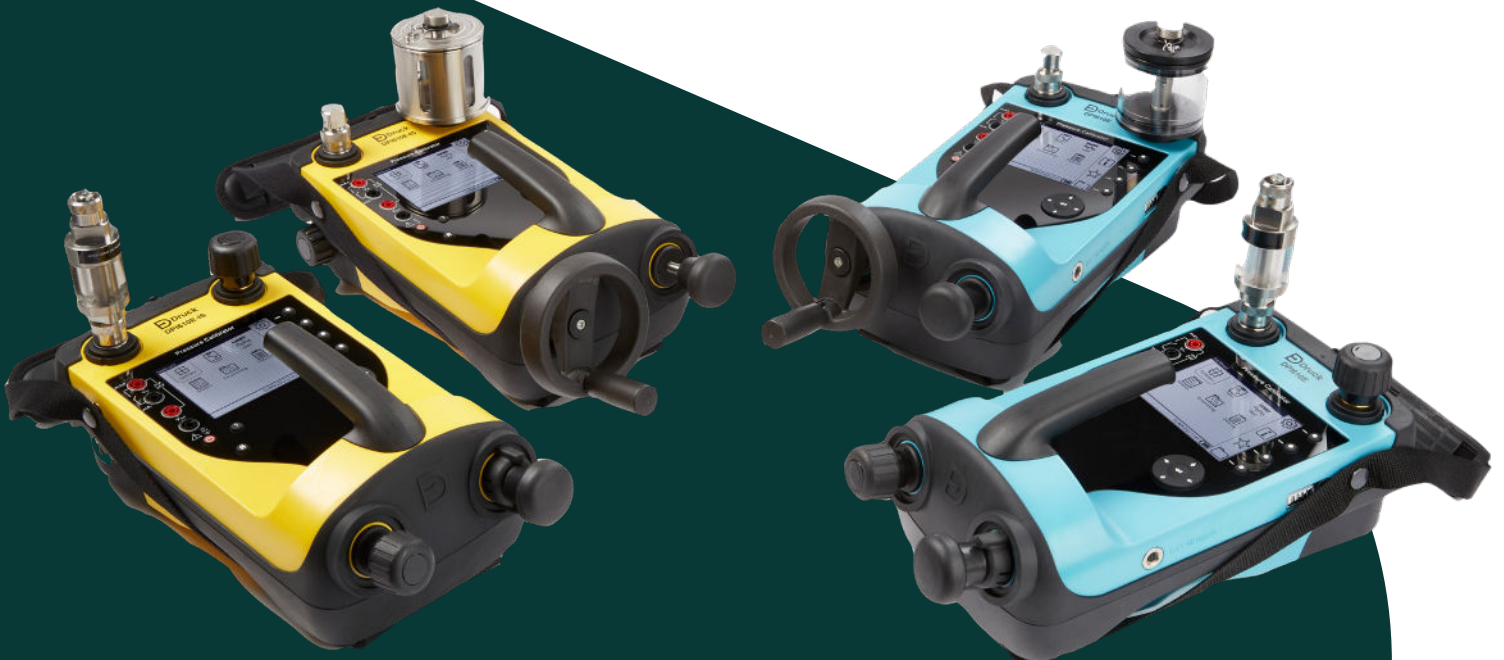
The design of the DPI610E incorporates all of the best features from the legacy DPI600 family into one efficient unit

Pressure Calibrators Must Be Accurate

The function of a pressure calibrator is to verify that instrumentation is functioning correctly. It has to do this accurately and consistently and be durable enough to withstand extreme work environments. Most importantly, however, it has to be easily utilized by the instrumentation technician to calibrate instruments over a wide range of pressures.

From the time Eugene Bourdon, a watchmaker, invented an early pressure gauge in 1849, one question has loomed, "How accurate is it?" Ensuring the accuracy of a pressure gauge, or any measuring instrument for that matter is critical to business functions, worker safety, and regulatory compliance. As such, pressure calibrators should be more accurate than the device being calibrated. The devices should also have a form factor and user experience that minimizes the potential for technician-introduced errors.

> The DPI610E retains the iconic handle, the ease of use, and the robust, reliable design of itspredecessors, but offers exciting new functionality.

Designed for reliability

Features like those found in the DPI610E make the work of instrument technicians easier. Knowing that they can count on a calibrator always to work brings peace of mind. Delivering reliability through exacting standards is Druck's goal. Contact your Druck representative today to learn how your instrument technicians can benefit from the reliability of the Druck DPI610E.

Reliability means peace of mind

Someone once asked a young child to give an example of what it means to be reliable. Without hesitation, the child responded. "Light bulbs are reliable. When you flip the switch, you know the room won't be dark."

Druck understands the importance of reliability. In fact, the company's design standard hinges on that idea. In designing its products, Druck strives to deliver "Peace-of-mind in the toughest environments." Its latest integrated pressure calibrator demonstrates that commitment. The DPI610E's design represents the new standard in pressure calibration tools. It meets the needs of technicians working everywhere from the tundra to the tropics. Before we get too far into the details, however, let's review some history.

Improving on a solid foundation

The DPI610E is the latest iteration of the company's product line. A self-contained, battery-powered calibrator, it operates to 350 mbar (500 psi / 3.5 MPa) pneumatic pressure. For hydraulic applications, the unit goes to 1,000 bar (15,000 psi/ 100 MPa).

Ensuring reliability doesn't come without pain points. This is where Druck shines. The company has self-imposed a stringent quality management system that adheres to ASI 9100 standards. That's the same guidelines used by the aerospace industry. The calibrator also meets CSA 60079, making it intrinsically safe even in explosive atmospheres.

Dirt, dust, and oil can wreak havoc on instrumentation. In the best circumstances, they can throw off the calibration. In the worst, the non-corrosives can destroy an instrument. To ensure reliable operation, Druck built the DPI610E to IP54 standards. This rigorous ingress protection means less downtime from dusty conditions or accidental splashes.

Tapping into the experiences of its user base, Druck gained more insight into design requirements for the DPI610E. For instance, this version sports a redesigned sensor that opens up pressure ranges not previously available. To make the unit part of a wing-to-wing solution, the manufacturer also bundled-in compatibility with 4Sight2. The calibration management software facilitates documentation and eliminates the need for back-office manipulations.

The DPI610E also works with HART Communications Protocol, one of the most popular industrial protocols in the world. This enables communications over legacy 4–20 mA analog instrumentation current loops, speeding up device calibrations.

> The DPI610E has been built on a history of expertise and proven technology.

We are a global technology company that designs, develops and manufactures the highest quality, most accurate and reliable customized pressure sensing devices and instruments, software and services.

We leverage innovation, continuous improvement and unprecedented quality, to enable our Customers to successfully operate, produce systems, monitor and/or control mission-critical assets in tough environments across the world's most challenging applications.

We delight customers with tailored solutions that address their challenges; embodying our deep domain knowledge of customers' applications, the most innovative and high performance connected pressure sensing devices, instruments, software and services; produced with the highest standards of safety, quality and delivery.

We are Druck. We provide peace of mind in the toughest environments.

Baker Hughes