

Pressuredaq

Portable Pressure Data
Acquisition System

Portable

Rugged

Accurate

Easy to use



Pressuredaq

Your complete pressure and temperature recording solution.

Portable

With a size of (10.24 x 6.30 x 3.58) inches and a weight less than 6.5 pounds, the system is easily portable. The power supply is built into the box. Simply add your 2-wire mA transducers.

Rugged

Die cast and powder coated aluminum housing with weathertight construction and LEMO K series push/pull connectors means that it can handle inclement conditions.

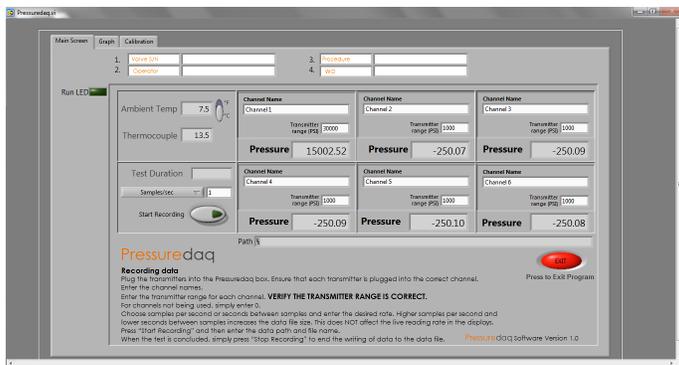
Accurate

Built with National Instruments hardware and LabView so it's dependable. Custom calibration routine built into the software so the system can be adjusted to account for any transducer error as necessary.

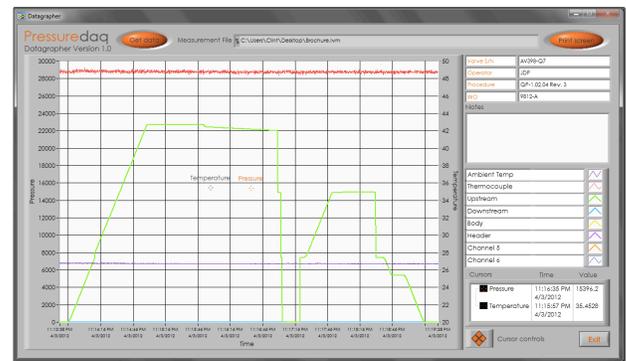
Digital readouts mean there's no interpolating a circular or strip chart.

Easy to use

The entire system was designed to be easy to set up and use. With a self-explanatory front page, simply set your transducer range for each channel, select the data recording rate, then click "Start Recording". It's that simple. With the included Datagrapher software, viewing your data as a graph is a simple process, too. Just "Get Data" and it's automatically loaded and scaled.



Pressuredaq recording front page



Datagrapher software

Pressuredaq was designed to take advantage of available technology to simplify the recording of pressure data for pressure tests. The system is well suited to replace conventional circular and strip recorders that are currently being used in pressure testing applications.

The included application, Datagrapher, makes it very easy to view and plot recorded data without any knowledge of graphing software. Zoom, re-scale, change plot color, use the cursors to get exact values...all within the Datagrapher application. And Datagrapher does not write any information to the data file so you can't accidentally mess it up.

The Pressuredaq data is written to a simple text file which can be read with any number of applications, Excel being the most common, so you can further analyze your data if required.

Specifications

Physical dimensions: (10.24 x 6.30 x 3.58) in / (250 x 160 x 91) mm
Power: 110 VAC
Input channels: (4 to 20) mA current loop, 2 wire, 24 VDC powered
Ambient temperature: (1 to 50) °C
Ambient temperature response time: approximately 30 minutes per 5°C change
Thermocouple input: K type (-18 to 315) °C / (0 to 600) °F
Operating temperature: (2 to 45) °C
Sample rates (data written to data file):
Max: 20 samples per second
Min: 1800 seconds between samples
Display update rate: 2 times per second (independent of sample rate)
Graph display: 30 minutes
Computer running Windows 7 required

Accuracy

Pressure channels: $\pm (0.02\% \text{ of reading} + 0.02\% \text{ of full scale})$
Ambient temperature: $\pm 1.5 \text{ }^\circ\text{C}$
Thermocouple channel: $\pm 1.5 \text{ }^\circ\text{C}$ (does not include sensor error)

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