

Ralston FieldLab Pressure Calibrator

Intrinsically Safe, Laboratory-Grade
Pressure Calibrator for Real-World Work



Accuracy Without Boundaries

The Ralston FieldLab Pressure Calibrator brings laboratory-grade calibration accuracy to the field, with complete digital control and data management through our free FieldLab Desktop Software. Plan tests, view live readings, and download results instantly from one powerful platform.



Pressure Calibration and Snapshot Logging

Calibrate faster and smarter with single-button logging of both DUT and reference readings, or use the Snapshot mode to capture single points with timestamps with notes for clear, reliable documentation.

Precision PSV Testing

Perform crack and seat tightness tests with instant feedback and digitally logged, ASME-compliant results. Enhance your tests with intuitive, graphical charts that map out precise crack and reseal pressures so the data is easy to interpret and share.



Pressure Monitoring and Hydrostatic Testing

Monitor pressure trends for hours or months with customizable intervals and massive onboard storage. Collect pressure and temperature data exactly when you need it, add custom fields, and create detailed reports with graphs—all with an accuracy level 10x greater than a standard chart recorder.

Intrinsically Safe Calibration Platform



FieldLab Desktop Software

Smart Software. Smarter Testing.

FieldLab Desktop is a free Windows-based software that lets you run tests from your PC, create and manage custom units and test modes, and compile your FieldLab results into professional, traceable reports.

Three Steps to Smarter Pressure Testing with the FieldLab



Create and Manage Tests

Design tests on your PC according to your own SOPs and share them across your team and FieldLab devices.



Run Tests in the Field

Connect your FieldLab to a pressure source and your DUT, run your test, and log calibration or pressure data. Enter DUT details on screen, and the FieldLab automatically compiles everything into one clean Data Set.



Export Data Sets

Download your test runs and export the results for use with calibration certificates, test reports or raw data CSV.

FieldLab Specifications

Pressure Ranges	Up to 10,000 psi / 70 MPa
Accuracy - Pressure Measurement	+/- 0.02% of Full Scale (0-20% of Full Scale) +/- 0.1% of Reading (20-100% of Full Scale)
Measurement Types	Gauge Pressure
Min Operating Temp	14 °F / -10 °C
Max Operating Temp	122 °F / 50 °C
Data Logging	2 million points (onboard)
Calibration Certificate	ISO 17025:2017 Accredited
Engineering Units	atm; bar; cmH2O @4°C; cmHg @ 0°C; ftH2O @39°F; inH2O @39°C; inHg @39°F; kgf / cm^2; kPa; mbar; mmH2O @4°C; mmHg @0°C; MPa; oz / in^2; Pa; psi; Torr
Certificates	North America - Intrinsically Safe <ul style="list-style-type: none"> • Class I, Division 1, Groups A,B,C,D T4 • Class I, Zone 0, AEx ia IIC T4 Conforms to UL 913 & UL 61010-1 Certified to CSA C22.2 No 60079-0, C22.2 No 60079-11 & CSA C22.2 No 61010-1-12 IECEX - Ex ia IIC T4 Ga Ⓜ II 1 G Ex ia IIC T4 Ga Ambient Temperature Conditions -10°C ≤ Ta ≤ 50 °C Ingress Protection: IP67
USB Connection	USB (Type B)



Find out more about the Ralston FieldLab Pressure Calibrator:



Ralston Instruments provides complete pressure calibration solutions for a wide range of applications, saving time and taking the guesswork out of critical pressure testing, maintenance and repair operations.



Gauges & Calibration References



Hand Pumps



Compressed Gas Pressure Controllers



High Pressure Hoses & Quick-test Connections



WARNING: Products containing Brass can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.