

MADE IN THE USA SINCE 1969

Visit ralstoninst.com

Speed through Calibration Tests

With single button logging of both Device Under Test (DUT) and Reference readings, techs get completely digital logging of test points.

Instant tolerance feedback at each point lets you know sooner than later whether to recalibrate.

Perform calibrations on pressure transmitters, gauges, and switches using on-screen prompts that tell the user when any test point is out of calibration.

Continuous Pressure Testing

For pressure testing and general purpose data logging of pressure, the FieldLab can monitor pressure over short or very long periods of time at customized intervals.

- » Pressure Testing
- » Customize Log Interval & Duration
- » Long Term Field Monitor (2 months on single charge)
- » 2 Million Data Points Onboard Storage
- » Wellhead Monitoring
- » Chart Recorder Replacement



Work in the Real World

What good is rugged mobility if you can't take your tools to where the job is? Below freezing or above blazing — the FieldLab is designed for where you work. The FieldLab is certified **Intrinsically Safe** for hazardous locations anywhere in the world — whether inside a meter shed, on a drilling platform or on a drilling rig.

Spend less time onsite and get more tests done in an 8 hour day without tedious processes or pen and paper.

Every Ralston FieldLab Model FLP1 includes the following Intrinsic Safety Approvals:

North America (US and Canada) Classification

- » Class I, Division 1 Groups A-D, T4, -10°C \leq Ta \leq 50°C
- » Class I, Zone O, AEx ia IIC T4, -10°C \leq Ta \leq 50°C
- » Intrinsically Safe

ATEX European Classification

- » 🐵 II 1 G Ex ia IIC Ga
- » -10°C ≤ Ta ≤ 50°C IP67
- » ATEX approved for use in Zone 0 Hazardous locations

IECEx Classification

- » Ex ia IIC T4 Ga
- » -10°C ≤ Ta ≤ 50°C IP67
- » IECEx approved for use in countries around the world who adhere to the IECEx standards.

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Intrinsically Safe Digital Calibration Platform for Hazardous Locations



FieldLab Desktop





Manage and configure your FieldLab Pressure References quickly and easily on your desktop or laptop.

Export Data Sets from Calibration Tests or Data Logging sessions.

Download FieldLab Desktop, a free Windows application for use with any FieldLab Pressure reference at **ralstonfieldlab.com**

Working Smarter in the Field



Create Test Modes in FieldLab Desktop

Create **Test Modes** based on your standard procedures for **Calibration Tests**, **Pressure Tests** and **PSV Tests**. Ensure repeatable and traceable testing procedures across your entire team and devices.

Static Pressure Monitor	Grade 2A Cal Test 100psi	
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- » Fully customizable Data Logging Test Modes for Pressure Testing, Pressure Monitoring or short term pressure recording in the field.
- » Calibration Test Modes with customizable test points, permissible error and one button logging of DUT and Reference readings.
- » Pressure Safety Valve (PSV) Test Modes for logging accurate proof of PSV performance with detailed digital data reporting.

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4

Add Test Modes to Your FieldLab

Share **Test Modes** across your team and your **FieldLab** devices. Add your Test Modes to your FieldLab before heading out to your test locations.



3 Run Tests in the Field

Connect your FieldLab to a pressure source and your **Device Under Test (DUT)** and run your Test Modes as needed. Log results of **Calibration Tests** or perform Pressure Monitoring Logging. All results are stored in **Data Sets** on the FieldLab.



4 Export Data Sets

Transfer **Data Sets** back to your Windows PC into FieldLab Desktop. Export the Data Sets for use in **Calibration Certificates**, As Found/As Left reports, or simple data runs.



For detailed tutorials on creating and managing Test Modes and Data Sets, visit: ralstonfieldlab.com

Specifications

Measurement Uncertainty	±0.02% of Full Scale (0-20% of Full Scale) (Exceeds ASME B40.100 Grade 5A)		
	±0.1% of Reading (20-100% of Full Scale) (ASME B40.100 Grade 4AR)		
	Vacuum: ±0.25% (ASME B40.100 Gi		
Battery Type	Lithium-ion, 4.8 Ah Capacity		
Charging	AC Power (Australia, China, Europe, North America, UK adapters included), DC Auto power (Optional)		
LCD Display	3.5 in / 90mm Color TFT LCD Display		
USB Connection	USB (Type B)		
USB Cable	2 meter (shielded)		
Datalogging	2 million data points		
Engineering Units	SI units: bar cmH ₂ O @ 4°C cmHg @ 0°C kgf/cm ² kPa mbar mmHg @ 0°C MPa	Imperial Units: atm ftH ₂ O @ 39°F inH ₂ O @ 39°F inHg @ 32°F oz/in ² psi Torr	

Mounting Holes	3 x M5 Inserts (10 mm deep)	
Ingress Protection	IP67 (1 meter water submersion for 30 minutes)	
Temperature range	14 to 122 °F (-10 to 50 °C)	
Construction	316 Stainless Steel, Reinforced Polyamide	
Wetted Materials	316 Stainless Steel	
Seal Materials	Teflon, Viton	
Fluid Media Compatibility	Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water	
	Fluids compatible with 316 Stainless Steel and Teflon, Viton Seals	
Certifications	North America (US and Canada) Classification	
	Classification	
	Class I, Division 1 Groups A-D, T4, -10°C \leq Ta \leq 50°C	
	Class I, Division 1 Groups A-D, T4, -10°C \leq Ta \leq 50°C	
	Class I, Division 1 Groups A-D, T4, -10°C \leq Ta \leq 50°C Class I, Zone 0, AEx ia IIC T4, -10°C \leq Ta \leq 50°C	
	Class I, Division 1 Groups A-D, T4, -10°C \leq Ta \leq 50°C Class I, Zone 0, AEx ia IIC T4, -10°C \leq Ta \leq 50°C ATEX European Classification	

How to Specify a FieldLab Model Number

1 2 FLP1 – XX – XX

Example: FLP1-GJ-QM = 100 psi / 7 bar / 700 kPa Male Ralston Quick-test™ Connection.

Choose a Pressure Range

5 psi / 350 mbar / 35 kPa	$= \mathbf{G}\mathbf{B}$
15 psi / 1 bar / 100 kPa	= GD
30 psi / 2 bar / 200 kPa	$= \mathbf{GF}$
50 psi / 3.5 bar / 350 kPa	$= \mathbf{G}\mathbf{H}$
100 psi / 7 bar / 700 kPa	= GJ
300 psi / 20 bar / 2 MPa	= GL
500 psi / 35 bar / 3.5 MPa	= GN
1,000 psi / 70 bar / 7 MPa	$= \mathbf{GP}$
3,000 psi / 200 bar / 20 MPa	= GR
5,000 psi / 350 bar / 35 MPa	$= \mathbf{GT}$
10,000 psi / 700 bar / 70 kPa	$= \mathbf{GV}$

Note: Not all end connections are available in all pressure ranges.

2 Choose a Process Connection

1/4" Male BSPP	= 2B
¼" Male NPT	= 2M
Ralston Male Quick-test™	= QM
Ralston Male Quick-test™ XT	= XM

Ready to get the FieldLab?

For questions about FieldLab models, purchasing options, availability and support, contact us directly.

800.347.6575 | sales@ralstoninst.com 8am – 5pm EST Weekdays

See all available options and build model numbers at ralstoninst.com/fieldlab

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