

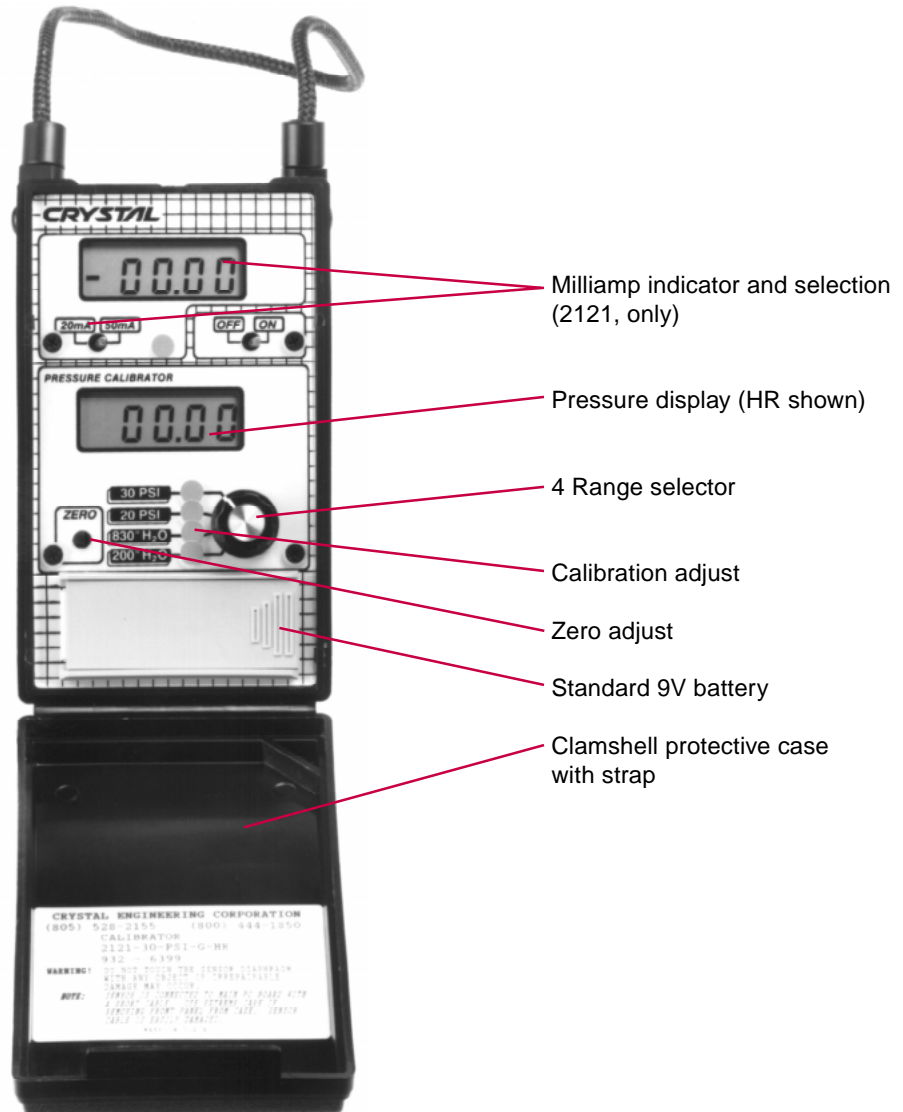
2100 Series

Precision Pressure Calibrators

Features

- ◆ **Liquid and Gas Compatible**
316 stainless steel sensor.
- ◆ **4 Pressure Ranges per Gauge**
From 200" H₂O to 500 PSI.
- ◆ **High Accuracy**
0.1% of each pressure range, 0.05% of reading for mA.
- ◆ **Display milliamps and Pressure at the same time.**
- ◆ **Uses One 9V Battery**
Carbon or alkaline, 300 hours operation.

Forget "clean dry air"



.... With the calibrator built with sensors made of stainless steel.

PRESSURE
is Our
BUSINESS™

CRYSTAL

2100 Series Precision Calibrators

Many calibrators use silicon pressure sensors because of their excellent repeatability, but before the 2100 Series, calibrators could only be used with "clean dry air." Harsh industrial gases, liquids, or even water vapor (as found in shop air) can destroy ordinary silicon pressure sensors (since the pressure sensing chip is exposed directly to whatever you're measuring). Surprisingly, these sensors can still be found in other calibrators.

2100's were the first (silicon sensor based) pressure calibrators to have a built-in stainless steel isolator to protect the sensor chip. Standard in all available pressure ranges, no exceptions. **With a 2100 you don't need worry about "clean dry air"!**

Even the circuitry in a 2100 is designed for corrosive, high humidity environments. All switches are fully sealed and the circuit boards are coated with a field proven conformal coating. Basic accuracy is 0.1% on each range so you can use a 2100 to calibrate gauges, pressure switches, pressure transmitters, chart recorders and more.

So, unless you only use dry nitrogen in your work, always insist on a calibrator with a stainless steel sensor. Like a 2100!

Specifications:

General **Battery:** One standard 9V carbon or alkaline battery.
Battery Life: 2120 - 300 hours, 2121 - 100 hours minimum.
Low Battery Indication: LCD displays "Low Battery".
Size: Approximately 2" x 3" x 6 1/2".
Weight: 13ozs.(370g) with battery.
Storage Temperature Range: -20°C to 70°C (-4°F to 158°F).
Operating Temperature Range: 0°C to 50°C (32°F to 122°F).

Pressure **Pressure Ranges:** Refer to chart below.
Accuracy: ±0.1% F.S. @ 23°C ±5°C for each range (or 1 "least significant digit" on ranges with limited resolution). This includes errors due to linearity, hysteresis and repeatability. The gauge must be adjusted to read zero at barometric pressure (except for absolute pressure versions).
Display: 3 1/2 digit Liquid Crystal Display with 0.5" digit height.
Temperature Stability: ±0.018% of full scale per °C (maximum) from 0°C to 18°C and 28°C to 50°C.
Compensated Temperature Range: 0°C to 50°C (32°F to 122°F).
Media Compatibility: Liquids and gases compatible with PTFE (Polytetrafluoroethylene) penetrated, hard anodized, aluminum transducer housing), 316 stainless steel (sensor), buna-n (O-ring).
Overpressure Rating: 3 times highest pressure range.
Pressure Fitting: Dual port 1/8" female NPT (tapered).
Pressure Conversion: Standard factory calibration is 1"H₂O @ 4°C = 0.036126 PSI. Specify at time of order if your required conversion is different from standard (e.g., for water @ 68°F, 1"H₂O = 0.036063 PSI).

Milliammeter (2121, only) **Accuracy:** ±0.05% of reading @ 23°C ±5°C (+2 digits on 20 mA scale).
Ranges: 0 to ±19.999mA and 0 to ±50.00mA.
Display: 4 1/2 digit Liquid Crystal display with 0.4" digit height.
Resolution: 0.001mA on 20mA scale, 0.01mA on 50mA scale.
Temperature Stability: ±0.01% of reading per °C from 0°C to 18°C and 28°C to 50°C.
Burden Voltage: 0.21V @ 20mA, 0.51V @ 50mA.
Overload Protection: Internal 2A/8AG/250V user-replaceable fuse.

Options **High Resolution Pressure Display:** Optional 4 1/2 digit Liquid Crystal Display for pressure display. Increases resolution on all ranges by one decimal place.

Ordering Information

MODEL	RANGE 1	RANGE 2	RANGE 3	RANGE 4
212(x) - 030PSI-G	199.9"H ₂ O	830"H ₂ O	19.99 PSI	30.0 PSI
212(x) - 030HG-G	760 mmHg	30.0"Hg	830"H ₂ O	30.0 PSI
212(x) - 200kPa-G	19.99 PSI	50.0 kPa	199.9 kPa	830"H ₂ O
212(x) - 250PSI-G	830"H ₂ O	30.0 PSI	199.9 PSI	250 PSI
212(x) - 4"Hg-A	4.00"HgA	30.0"HgA	1000 mmHgA	15.00 PSIA
212(x) - 100mmHg-A	100.0 mmHgA	1000 mmHgA	30.0"HgA	15.00 PSIA

x = 1, includes milliamp display
x = 0, no milliamp display

Add "HR" to part # for high resolution option
Special ranges available - contact factory

Specifications subject to change without notice.
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