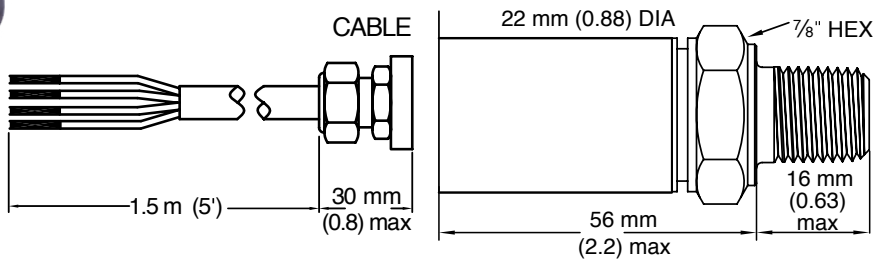
imPress Pressure Sensor



Wiring Information

Wiring	Cable
Excitation(+)	Red
Output (+)	White
Output (-)	Green
Excitation(-)	Black

Specifications

Accuracy	
Output	0 to 100 mV, except 2 psi = 40 mV and 1 psi = 20 mV
Accuracy	±0.25% of Full Scale
Zero Offset	±2% of Full Scale; ±4% for 1 and 2 psi ranges
Span Setting	±2% of Full Scale; ±4% for 1 and 2 psi ranges
Compensated Temperature	0 to 50°C (32 to 122°F)
Thermal Zero and Span Effects	15 to 10,000 psi Ranges: ±2% of Full Scale 5 psi Range: ±3% of Full Scale 2 psi Range: ±4% of Full Scale 1 psi Range: ±5% of Full Scale
Long-term Stability (1 year)	± 0.25% of Full Scale
Typical Life	10 million cycles
Operating Temperature	-40 to 85°C (-40° to 185°F)
Proof Pressure	All psia and ≤50 psig Ranges: 3x capacity or 20 psi 100 psig Ranges: 2x capacity
Burst Pressure	500% of capacity or 25 psi, whichever is greater.
Response Time	Less than a 1 millisecond
Shock	50g, 11 ms half-sine
Vibration	±20g
Protection Class	IP 65
Wetted Parts	316 SS for all psia and 1 to 50 psig ranges 17-4 PH stainless steel for ranges 100 to 10,000 psig
Pressure Port	1/4-18 MNPT
Electrical Connections	1.5 m (5') 2-, 3-, or 4-conductor cable (mA, 5V, mV outputs, respectively)
Excitation	0 to 50 psig and All psia Ranges: 10 Vdc (ratiometric), (5 to 12 Vdc limits). 100 to 10,000 psig Ranges: 5 Vdc (ratiometric), (3 to 10 Vdc limits).

Ordering Information

Range		Part No.
Absolute Pressure		
Bar	PSI	
0 to 0.34	0 to 5	imPress-005A-100-U
0 to 2.1	0 to 30	imPress-030A-100-U
0 to 3.4	0 to 50	imPress-050A-100-U
0 to 6.9	0 to 100	imPress-100A-100-U
0 to 21	0 to 300	imPress-300A-100-U
Gage Pressure		
0 to 0.07	0 to 1	imPress-001G-100-U
0 to 0.34	0 to 5	imPress-005G-100-U
0 to 1.034	0 to 15	imPress-015G-100-U
0 to 2.1	0 to 30	imPress-030G-100-U
0 to 3.4	0 to 50	imPress-050G-100-U
0 to 6.9	0 to 100	imPress-100G-100-U
0 to 34	0 to 500	imPress-500G-100-U
0 to 69	0 to 1000	imPress-1000G-100-U
0 to 345	0 to 5000	imPress-5000G-100-U
0 to 690	0 to 10,000	imPress-10000G-100-U

Note: We do not manufacture these sensors and do not have certified references to calibrate them inhouse. We can burn the mV/V value provided by the manufacturer into the DI-1000 and do a quick sense check to verify they are working. The manufacturer's original calibration certificate will be included with each unit shipped.

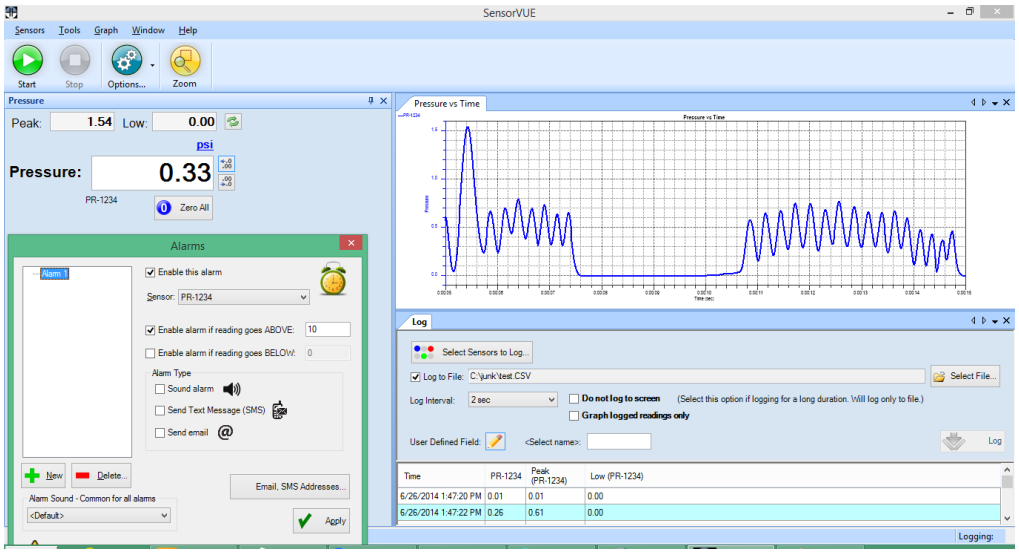
USB Load Cell Configuration

imPress — DI-1000U (24 bit) — SensorVUE

Wireless Load Cell Configuration

imPress — DI-1000ZP/WiFi/BLE (24 bit) — SensorVUE

SensorVUE software provides convenient means for easy data acquisition and display of load cells, torque sensors, pressure sensors, displacement sensors and/or level sensors and is available in multiple configurations. SensorVUE works on Windows PCs (XP through 8.1) and allows you to view, log and plot data.



ControlVUE software can be used to control USB Relays based on sensor values to turn on/off external devices such as valves, motors, pumps, and alarms.

