



CALSCAN

precision
temperature pressure
& flow measurement

FALCON ELECTRONIC DEADWEIGHT



THE FALCON is a quick, convenient and inexpensive way to accurately measure pressure in almost any environment. Under 4 inches in diameter, the Falcon will fit in your hand and, yet, hold most standard quick-connects and fittings. The custom-made aluminum case is water-resistant and has an advanced shock-absorbing system that is designed to take more abuse than the typical electronic deadweight, before being damaged.

Have you ever used a electronic pressure gauge when the temperature is changing rapidly? Most gauges will have extremely poor accuracies unless the temperature is stable. To prevent this we calibrate the Falcon from -40°C to $+60^{\circ}\text{C}$, and use advanced digital compensation technology, unlike almost all other pressure gauges. As a result, you don't have to worry about the outside temperature changes affecting the

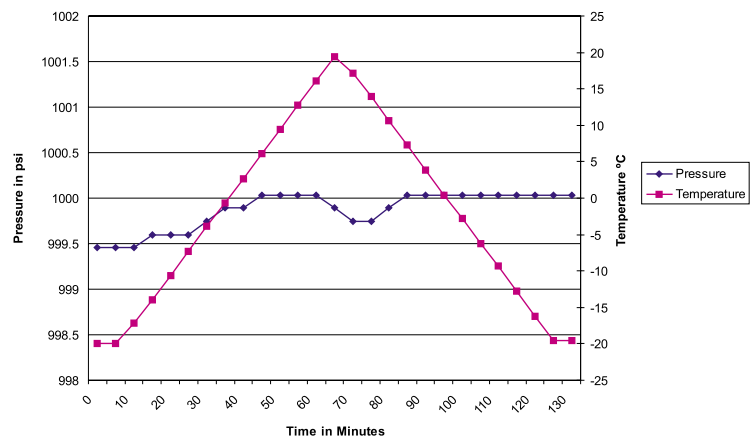
displayed pressure. For example, on the graph below, you can see data from a typical Falcon with a range of 3500 psi, tested at 1000 psi of pressure. The temperature was then ramped from -20°C to $+20^{\circ}\text{C}$ in 1 hour, and then back down. There is 0.5 psi (0.015% Full Scale) deviation from the correct value, well below the stated accuracy of $\pm 0.04\%$ Full Scale.

Software features such as one touch memory, peek pressure detect, and manual zero makes the Falcon convenient to operate. Included with every deadweight is a watertight carrying case to keep your Falcon safe when its not being used and, it even has enough room to house most pressure connections too. In short, we built this electronic deadweight to satisfy the needs of the field operator for ruggedness, and unparalleled accuracy for the instrumentation technician.



Included with every deadweight is a watertight carrying case to keep your Falcon safe when it's not being used.

Pressure Deviation on 3500 psi Falcon with 1000 psi Head



SPECIFICATIONS

- **Accuracy:** +/- 0.04% Full-Scale Total Error Band
- **Resolution:** 0.1 psi or 1 kPa
- **Calibrated Operating Temperatures:** -40°C to +60°C
- **Storage Temperature:** -40°C to +85°C
- Div I Class 1 Groups A, B, C, D EEx ia IIC T4, Maximum Ambient: +50°C
- CSA / UL / CENELEC-ATEX-100
- CE approved for Europe
- Rugged Case
- Weather Proof NEMA IV, IP65
- 3.9 inches in Diameter
- Advanced Shock Resistant Design
- **Long Battery Life:** One year if used continuously for 3 hours day, 7 days a week
- Low Battery Indicator
- **Engineering Units:** psia, psig, kPaa, kPag
- 1/4 NPT or 3/4 NPT Process Connection
- **Power:** 2 AA Lithium Battery Pack
- **Calibration Traceability**
 - Masses: NIST
 - Pistons: NIST and LNE (France)
- **Agency Approvals**
 - UL 913, Fifth Edition
 - CSA C22.2 157-M1992
 - ATEX-100
 - EN 50081-2
 - EN 61000-6-2
- **Pressure Ranges:** 750, 1500, 3500, 5000, 10000 psi
- Water Tight Carrying Case Included

Specifications are subject to change due to a policy of continuous improvement. This product not restricted under DOT and LATA shipping regulations.



For warranty, calibration, replacement battery, and local distributor information contact:

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