

# THE **FALCON**

Electronic DeadWeight

- Accurate to  $\pm 0.04\%$  FS
- Calibrated from  $-40^{\circ}\text{C}$  to  $60^{\circ}\text{C}$
- Intrinsically Safe
- Rugged





**HARVIE**  
**Instruments Ltd**  
ESTABLISHED 1967  
6884 - 52 Avenue  
RED DEER, ALBERTA T4N 4L1  
**(403) 347-6001**

Available at:



# THE FALCON Electronic DeadWeight

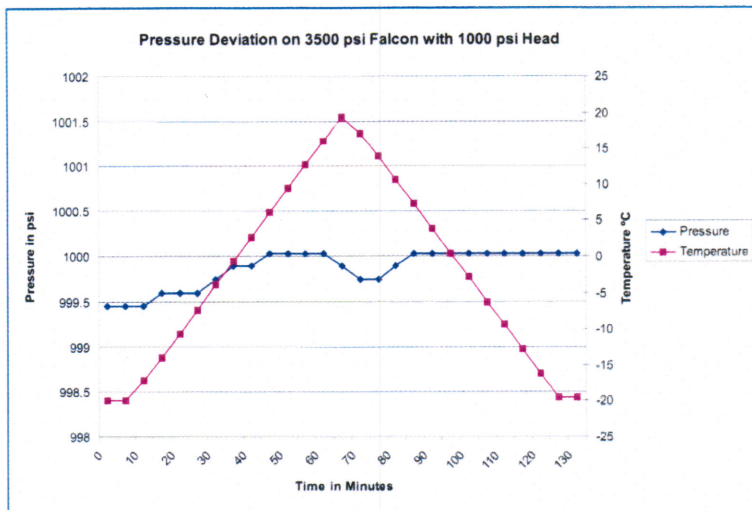
## THE FALCON ELECTRONIC DEADWEIGHT

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 an 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 to +60 °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 to the right, 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 to 20 °C in 1 hour, and then back down. There is 0.5 psi (0.015% FS) deviation from the correct value, well below the stated accuracy of +/- 0.04% FS.



This product not restricted under DOT and LATA shipping regulations

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.

### Specifications

- Accuracy: +/- 0.04% Full-Scale Total Error Band
- Resolution: 0.1 psi or 1 kPa
- Calibrated Operating Temperatures: -40 to +60 °C
- Storage Temperature: -40 to +85 °C
- Div I Class 1 Groups A, B, C, D EEx ia IIC T4 Max 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, kPa, kPag
- 1/4 NPT Process Connection
- Power: 2 AA Lithium Battery Pack
- Calibration Tractability:
  - ◆ 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 psi
- Water Tight Carrying Case Included
- Specifications are subject to change due to a policy of continuous improvement

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



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