The CirrusSense™ TDWLB-LC Series
Low Cost/OEM, Lightweight
Wireless Bluetooth Pressure Transducer

**FEATURES**

- Grivory, Industry First, Lightweight
- Connects to smart phones and tablets with BLE (Bluetooth® Low Energy)
- Remote Monitoring Capability Available
- Pressure ranges up to 1,000 psi
- 1% Standard accuracy
- Long battery life
- Alarm set points
- Secure field programmable naming
- Patent Pending Design

**SPECIFICATIONS**

**Performance**
- Pressure Accuracy: 1% BFSL (includes: Non-linearity, Hysteresis and Non-repeatability)
- Overrange Protection: 1.5x Rated Pressure
- Pressure Range: See ordering Code, vacuum to 1,000 psi
- Update Time: Bluetooth® wireless technology (1sec)

**Environmental Data**
- Temperature
  - Compensated Temperatures: -25°C (-13°F) to 60°C (140°F)
  - Operating Temperatures: -30°C (-22°F) to 60°C (140°F)
  - Storage Temperatures: -30°C (-22°F) to 60°C (140°F)
- TEB: 3% of FS
- Long Term Drift: 0.2% FS/year (non-cumulative)
- EMI/RFI Protection: Yes
- Rating: IP-67

**Mechanical Configuration**
- Pressure Connections: 7/16-20 UNF Female w/ 45° flare & valve depressor, 1/4 NPT, 1/8 NPT, G 1/4
- Wetted Material: Grivory engineered composite material
- Sealing Material: Schrader Connection = HNBR, All other pressure fittings Viton

**Electrical Data**
- Power Supply: Replaceable battery, battery life: 24+ months, typical. Battery life is affected by high and low temperatures. Battery part number: TDWLB-LC-BAT
- Battery Removal: If battery pack is removed, you must wait 90 seconds to reinstall

**Compatible Devices**
- Software: Android - Version 4.3 or later
  - iOS - Current version and previous one
- Hardware: Apple - Device supports Bluetooth Smart (Version 4.0 and later)
  - iPad Gen 3 (released March 16, 2012)
  - iPad Gen 4 (released Nov. 2, 2012)
  - iPad Mini Gen 1 (released Nov. 2, 2012)
  - iPad Mini Gen 2 (released Nov. 12, 2013)
  - iPad Air (released Nov. 1, 2013)
  - iPad Air 2 (released Oct 22, 2014)
  - iPad Pro (released Nov. 11, 2015)
  - iPhone 5 (released Sept. 21, 2012)
  - iPhone 6, 6 Plus (released Sept. 19, 2014)
  - iPhone 6S, 6S Plus (released Sept. 25, 2015)
  - iPhone 7, 7 Plus (released Sept. 16, 2016)
  - iPhone 8, 8 Plus (released Sept. 22, 2017)
INNOVATIVE SENSORS
FOR INDUSTRIAL AND HOME AUTOMATION

**= Consult factory for further OEM options.
Pressure ranges listed above are quick ship versions.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to the customer to determine the suitability of the product in the application.

DIMENSIONS

All TDWLB Transducers Contain a Lithium Battery That Must Be Disposed of Properly

ORDERING

Series | Pressure Range | Pressure Connection | Accuracy | Battery Pack
--- | --- | --- | --- | ---
TDWLB-LC | 0500 (psi) | 42 | 4 | Blank = standard battery pack
0015 | 01 = 1/8 NPT
0025 | 03 = 1/4 NPT
0050 | 13 = G 1/4
0100 | 42 = 7/16-20 UNF Female
0250 | w/ 45° flare & valve
0500 | depressor (Schrader)
0650
1000

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All straight-thread o-rings are Viton. It is customer’s responsibility to determine compatibility.

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