

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



SERIES: TDWLB-LC



## 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	Performance @ 25°C (77 °F) 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	<i>Bluetooth</i> ® 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

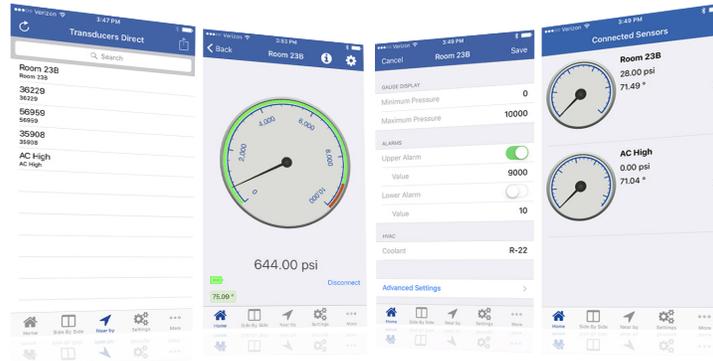
### Electrical Data

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

### Operating System Requirements

iOS 8.0 or later  
Android 4.3 or later

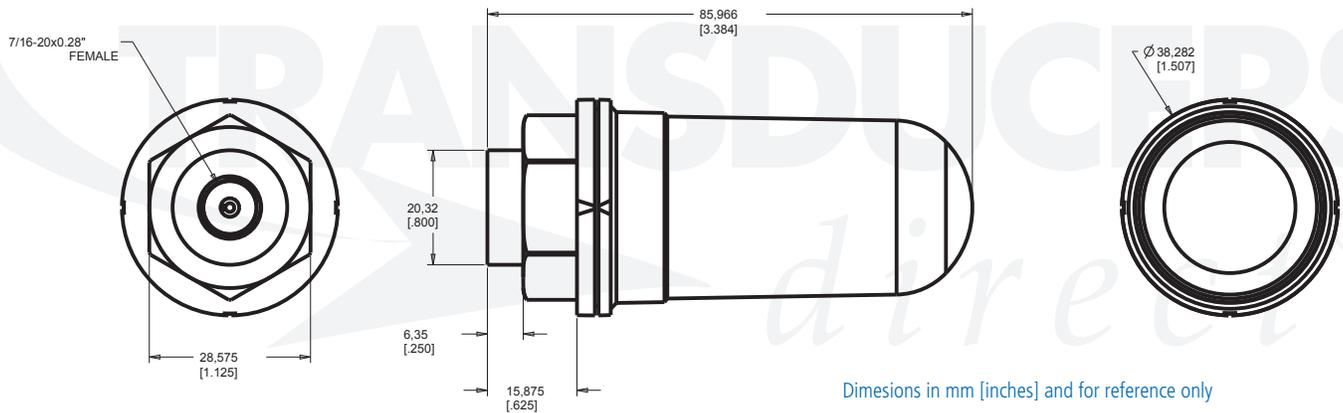
**TDWLB-LC APP**



Free download at the Apple iTunes App Store and Google Play PI Store

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**



Dimensions in mm [inches] and for reference only

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	
	0015	01 = 1/8 NPT	4 = 1.0%	Blank= standard battery pack
	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			
	**			

\*\*= Consult factory for further OEM options.

Pressure ranges listed above are quick ship versions.

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

TDWLB-LC wireless Bluetooth pressure transducers are capable of measuring vacuum (accuracy is based on the full-scale pressure range of the sensor).

REV 6.21