

The CirrusSense™ TDWLB Series Wireless Bluetooth Pressure Transducer



SERIES: TDWLB



DESCRIPTION

Another Industry First! The first Bluetooth® certified wireless pressure transducer with long battery life and patent pending design makes the Transducers Direct CirrusSense™ TDWLB a perfect fit for many applications for Industrial and Home Automation.

Download the free app, install the transducer and wirelessly connect - no confusing wiring to figure out. From HVAC in marine, campers, motorhomes, residential and commercial

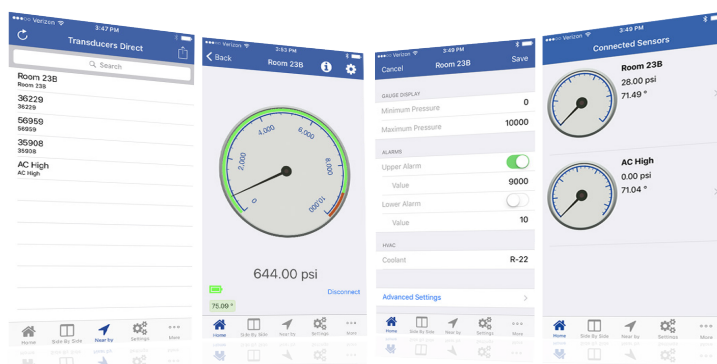
applications to water, hydraulic, irrigation, pools, medical and sprinkler systems or anywhere you need to monitor pressure without the need of wires.

Because it is built on Transducers Direct TD1000 proprietary technology, the TDWLB ensures high quality and high accuracy with Transducers Direct's quick deliveries, and low costs.

FEATURES

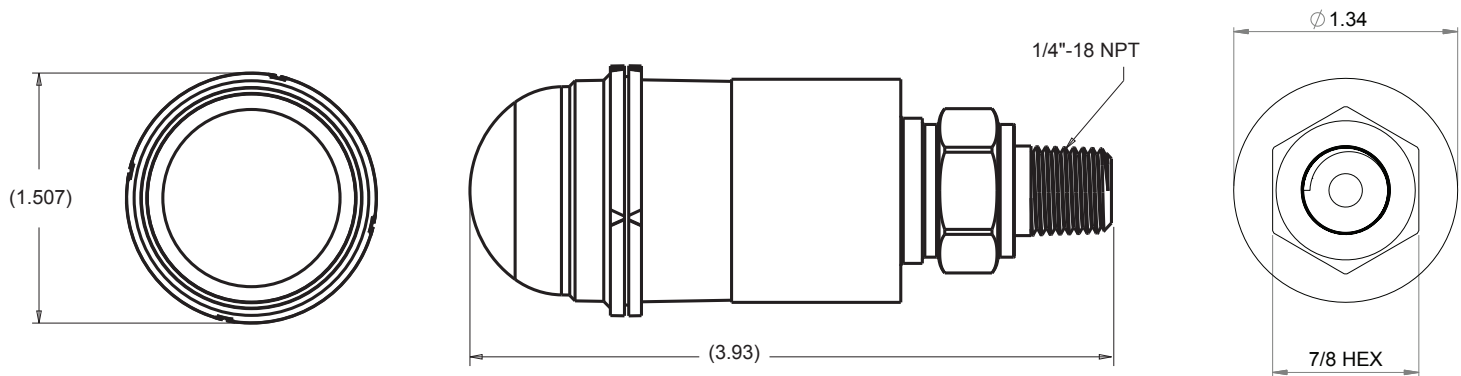
- Connects to smart phones and tablets with BLE (Bluetooth® Low Energy)
- Certified Bluetooth® Wireless technology
- Pressure ranges from Vacuum to 10,000 psi
- Long battery life (proprietary technology)
- 1% Standard accuracy with optional 0.25% Ultra high accuracy
- Stainless Steel and high impact polycarbonate construction
- Alarm set points
- Secure field programmable naming
- Patent Pending Design
- Schrader, NPT, SAE and G 1/4 pressure connection

TDWLB APP



Free download at the Apple iTunes App Store and Google Play

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. **Rev 2.25**

DRAWING


Dimensions in inches and for reference only

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

REGULATORY COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the two following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Transducers Direct could void the user's authority to operate the equipment.

FCC ID: 2ACGE-TDWLBG2

This device complies with Industry Canada licence-exempt RSS standard(s) / CNR of Industry Canada for licence exempt radio devices. Exploitation is entitled to the following two conditions: (1) the device does not produce interference, and (2) the device must accept any radio interference suffered, even if the interference is likely to jeopardize the operation.

IC: 12056A-TDWLBG2

SPECIFICATIONS

Performance

Pressure Accuracy

Temperature Accuracy

Overrange Protection

Pressure Range

Burst Pressure

Pressure Cycles

Update Time

Connection Distance

Performance @ 25°C (77 °F)

0.25% or 0.2 psi, whichever is greater, 1% BFSL (includes non-linearity, hysteresis, non-repeatability)

± 1°C using temp probe

2x Rated Pressure

See ordering chart - vacuum to 10,000 psi (690 bar)

5x or 20,000 psi, whichever is less

>100 million

Bluetooth® wireless technology (1sec)

250 feet (line of sight)

Environmental Data

Temperature

Compensated Temperatures

Operating Temperatures

Storage

TEB

Long Term Drift

Shock

Vibration

EMI/RFI Protection

Ingress Rating

Approvals

-10° to 85° C (14 to 185° F)

-40° to 85° C (-40° to 185° F)

-40° to 125° C (-40° to 257° F) without battery

3% FS

0.2% FS/year (non-cumulative)

50g, 11 ms, 1/2 sine

10g, peak, 20 to 2400 Hz

Yes

IP-67

CE

Mechanical Configuration

Pressure Connections

Wetted Material

Case

1/4" NPT Male, 7/16-20 UNF Male, G1/4 Male

17-4PH stainless steel (for other materials consult factory)

(housing) 304 stainless steel and high-impact polycarbonate

Electrical Data

Power Supply

Battery Removal

Operating System Requirements

3.6V Proprietary replacement battery, battery life: 24 months, typical. Battery life is affected by high and low temperatures. Battery Part Number: TDWLB-G2-BAT

If battery pack is removed, you must wait 90 seconds to reinstall.

iOS 8.0 or later

Android 4.3 or later

ORDERING

Series	Pressure Range	Pressure Connection	Accuracy	M5 / Temperature Probe
TDWLB	0500 (psi)	03	2	
	0050	03= 1/4" NPT Male	4 = 1.0%	(BLANK)=No M5 connector (not temp probe capable)
	0100	09= 7/16-20 UNF Male	2 = 0.25%	T24=M5 connector, 24" cable with M5 mating connector and external temperature sensor
	0250	13= G1/4 Male		M5 = M5 connector alone (temp probe capable)
	0500	**		**
	0650			
	1000			
	3000			
	5000			
	010K			
	**			

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

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