

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 ¼ pressure connection

TDWLB APP

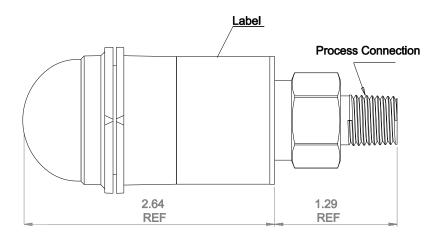


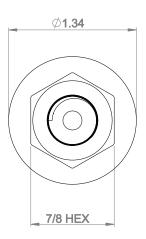
Free download at the Apple iTunes App Store and Google Play

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.



DRAWING





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 cor-rect 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 Performance @ 25°C (77°F)

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

Temperature Accuracy

Overange Protection 2x Rated Pressure

Pressure Range see ordering chart - up to 10,000 psi (690 bar)

5x or 20,000 psi, whichever is less **Burst Pressure**

>100 million **Pressure Cycles**

Bluetooth wireless technology (1sec) **Update Time**

Environmental Data

Temperature

-10° to 85° C (14 to 185° F) **Compensated Temperatures Operating Temperatures** -40° to 85° C (-40° to 185° F)

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

3% BFSL (includes: Non-linearity, Hysteresis and Non-repeatability)

Long Term Drift 0.2% FS/vear (non-cumulative)

Shock 50g, 11 ms, 1/2 sine Vibration 10g, peak, 20 to 2400 Hz

EMI/RFI Protection Yes **Ingress Rating** IP-67

Mechanical Configuration

Pressure Connections 1/4" NPT Male, 7/16-20 UNF Male, G1/4 Male, 7/16-20 UNF Female w/ 45° flare & valve depressor

(Schrader)

Wetted Material 17-4PH stainless steel (for other materials consult factory) (housing) 304 stainless steel and high-impact polycarbonate Case

Electrical Data

Power Supply 3.6V Proprietary replacement battery, battery life: 24 months, typical. Battery life is affected by

high and low temperatures.

Powered version: 8-28 VDC power supply, current draw: 10mA max

Battery Removal If battery pack is removed, you must wait 90 seconds to reinstall or unit may lock up.

Connection Distance 250 feet (line of sight)

Compatible Devices Software: Android - Version 4.3 or later

iOS - Current version and previous one

Hardware: Android - Device supports Bluetooth Smart (Version 4.0 and later)

> iPad Gen 3 (released Mar 16, 2012) iPhone 6 (released Sept 19, 2014)

iPhone 6S, 6S plus (released Sept 25 2015) iPad Gen 4 (released Nov 2, 2012) iPad Mini Gen 1 (released Nov 2, 2012) iPhone 7, 7 plus (released Sept 16, 2016

iPhone 8, 8 plus, X

iPad Mini Gen 2 (released Nov 12, 2013)

iPad Air (released Nov 1, 2013)

iPhone 5 (released Sept 21, 2012) iPhone 5C, 5S (released Sept 20, 2013)

ORDERING

Series TDWLB —	Pressure Range - 0500 (psi) —	Pressure Connection 03	Accuracy — 2 -	Battery Pack
**= Consult factory for further OEM options.	0050 0100 0250 0500 0650 1000 3000 5000 010K **	03= 1/4" NPT Male 09= 7/16-20 UNF Male 13= G1/4 Male 42= 7/16-20 UNF Female w/ 45° flare & valve depressor (Schrader)	4 = 1.0% 2 = 0.25%	(BLANK) = Standard battery pack T24 = M5 connector, 24" cable with M5 mating connector and external temperature sensor M5 = M5 connector alone **

Pressure ranges listed above are quick ship versions.