

The CirrusSense™
TDWLB-DL Series
Wireless Bluetooth
Pressure Transducer
With Data Logging
Capability







SERIES: TDWLB-DL

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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. The TDWLB-DL includes data logging capability to save pressure and temperature data that can be emailed and opened in an excel spread sheet.

Bluetooth®

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
- Number of individual logs: from 15,872 to 32,768
- Email logged files from the app

TDWLB APP

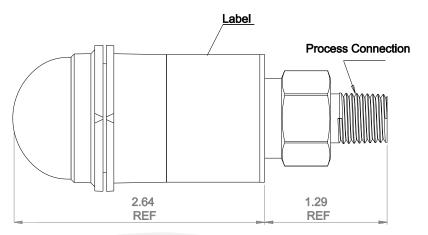


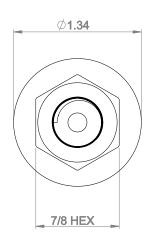
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Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature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



DRAWING





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



DATA LOGGING

Measurement Intervals

From 50ms up to 1hr

Fill Until Full: 50ms, 500ms, 1 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min, 20 min, 30 min, 1 hr, 1 day

Recording Temperature

External temperature probe required to record temperature data

Storage Modes

Fill Until Full: When memory is full, recording will stop

FIFO (First in/First out): When memory is full, recording will start over from the beginning replacing the first recordings with the latest moving forward

FIFO: 500ms, 1 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min, 20 min, 30 min, 1 hr, 1 day

Max Logs per Storage Mode						
Storage Mode	Data Recorded					
	Pressure and Temperature	Pressure or Temperature				
Fill Until Full	16,384	32,768				
FIFO	15,872	31,744				





SPECIFICATIONS

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 \pm 1°C using temp probe Overange Protection \pm 2x Rated Pressure

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

Bluetooth wireless technology (1sec)

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

Pressure Cycles >100 million

Update Time Environmental Data

Temperature

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

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

TEB 3% FS

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

 Shock
 50g, 11 ms, 1/2 sine

 Vibration
 10g, peak, 20 to 2400 Hz

EMI/RFI Protection Yes
Ingress Rating IP-67
Approvals CE

Mechanical Configuration Pressure Connections Wetted Material Case

Electrical Data Power Supply

Battery Removal Connection Distance

Operating System Requirements

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

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

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.

250 feet (line of sight)

iOS 8.0 or later Android 4.3 or later

ORDERING

Series — TDWLB-DL —	Pressure Range 0500 (psi)	Pressure Connection - 03 -	Accuracy - 2 -	M5 / Temperature Probe
= 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)=NoM5conector(nottempprobecapable) T24 = 24" cable with M5 mating connector and external temperature probe M5 = M5 connector alone (temp probe capable) **

Pressure ranges listed above are quick ship versions.

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