

INNOVATIVE SENSORS FOR INDUSTRIAL AND HOME AUTOMATION

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





SERIES: TDWLB-DL



Bluetooth[°]

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.

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

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

TDWLB APP

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.

- 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



Free download at the Apple iTunes App Store and Google Play

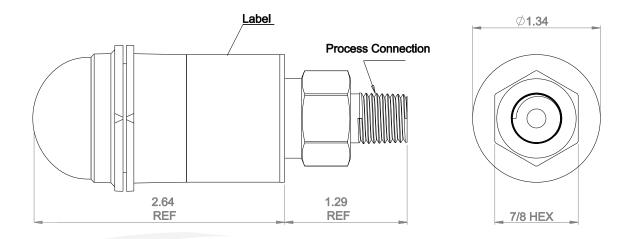
Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to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

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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 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



INNOVATIVE SENSORS

DATA LOGGING

Measurement Intervals

Recording Temperature Storage Modes From 50ms up to 1hr Fill until full: 50ms, 500ms, 1 sec, 30 sec, 1 min, 10 min, 30 min, 1 hr FIFO: 500ms, 1 sec, 30 sec, 1 min, 10 min, 30 min, 1 hr External temperature probe required to record temperature data 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

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

INNOVATIVE SENSORS FOR INDUSTRIAL AND HOME AUTOMATION

Performance Pressure Accuracy Temperature Accuracy Overange Protection Pressure Range Burst Pressure Pressure Cycles Update Time	± 1°C 2x Rated Pressure see ordering chart 5x or 20,000 psi, w >100 million	hichever is greater, 1% BFSL (includes non-linearity, hysteresis, non-repeatability) - up to 10,000 psi (690 bar)
Environmental Data Temperature Compensated Temperatures Operating Temperatures Storage TEB Long Term Drift Shock Vibration EMI/RFI Protection Ingress Rating		to 185°F) ° to 257°F) without battery : Non-linearity, Hysteresis and Non-repeatability) -cumulative) e
Mechanical Configuration Pressure Connections Wetted Material Case	(<mark>Schrader</mark>) 17-4PH stainless st	6-20 UNF Male, G1/4 Male, 7/16-20 UNF Female w/ 45° flare & valve depressor eeel (for other materials consult factory) hless steel and high-impact polycarbonate
Electrical Data Power Supply Battery Removal Connection Distance	high and low tem	emoved, you must wait 90 seconds to reinstall or unit may lock up.
Compatible Devices	Software: Hardware:	Android - Version 4.3 or later iOS - Current version and previous one Android - Device supports Bluetooth Smart (Version 4.0 and later) iPad Gen 3 (released Mar 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 (released Nov 1, 2013)

ORDERING

Series TDWLB-DL —	Pressure Range 0500 (psi)	Pressure Connection 03	Accuracy — 2 —	M5 / Temperature Probe
	0050	03= 1/4" NPT Male	4 = 1.0%	(BLANK) = No M5 conector (not temp probe
	0100	09= 7/16-20 UNF Male	2 = 0.25%	capable)
	0250	13= G1/4 Male		T24 = 24" cable with M5 mating connector and
	0500	42= 7/16-20 UNF		external temperature probe
	0650	Female		M5 = M5 connector alone (temp probe capable)
	1000	w/ 45° flare & valve		**
	3000	depressor (Schrader)		
	5000	**		
	010K			
or further OEM options.	**			

iPhone 6, 6 Plus (released September 19, 2014)

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

**= Consult factory for further OEM options.

Pressure ranges listed above are quick ship versions.

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