



iTrapSensor® DATA STATION MODEL iT5-ZB-DSN

DATA STATION FOR ITRAPSENSOR MONITORING SYSTEM VIA TLV'S IEEE 802.15.4-BASED PROTOCOL

Benefits

Data station for iTrapSensor monitoring system via TLV's IEEE 802.15.4-based protocol.

1. Utilizes the TLV original, IEEE 802.15.4-based communication network.
2. Suitable for monitoring of many devices: up to 8000 sensors can be connected to one data station.
3. Enables administration and control of the wireless network and configuration of network settings.
4. Uploads measurement data to the data collection server.
5. Specifications for hazardous and non-hazardous locations available.



Specifications

Model		iT5-ZB-DSN	
Type		Explosion-proof	Non explosion-proof
Wireless Frequency Band		2.4 GHz	
Maximum No. of Connections		100 repeaters and 8000 sensors ¹⁾ per data station	
Maximum No. of Hops		20 (from sensor to data station)	
Communication Cycle ²⁾		5 minutes to 24 hours	
Power Source		External power source: 100 - 240 V AC, 5 W, 50/60 Hz	
Intrinsic Safety Specifications		ATEX: II 2G Ex db IIC T4 Gb IECEX: Ex db IIC T4 Gb UKEX: Ex db IIC T4 Gb UL/cUL: Class I, Zone 1, AEx db IIC T4 Gb, Ex db IIC T4 Gb	—
Locations for Use		Hazardous locations, non-hazardous locations	Non-hazardous locations
Installation Location		Outdoor, indoor	Indoor
Ambient Temperature (°F)		-4 to +140	
Communication Method		TLV original wireless network, wired/wireless LAN	TLV original wireless network, wired LAN
Wireless Module	TLV Original Wireless Network	Communication distance ³⁾ : Data station and repeater: Approx. 656 yd (with a clear line of sight) Data station and sensor: Approx. 219 yd (with a clear line of sight)	
		Built-in antenna	External antenna
	Wireless LAN	Compliance: IEEE 802.11b/g/n Security: 802.11i compliant AES, WPA/WPA2-PSK, WEP (64/128 bit, TKIP)	—
	Regulatory Compliance	FCC, IC, CE compliant	
Protection Class		IP54	IP40
Communication Port		LAN (Ethernet) RJ45 × 1 (100BASE-TX/10BASE-T)	
Material	Body	Cast Aluminium Alloy (AC4C-T6)	
	Antenna Cover	Polycarbonate	
		Hot rolled steel sheet (pickled)	

¹⁾ When measurement and communication cycles are set to 1 hour. Up to 250 sensors can be connected to 1 repeater.

²⁾ Automatically set according to the sensor communication cycle configuration.

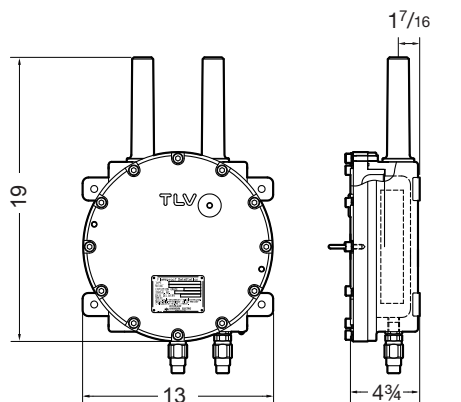
³⁾ Wireless module power output is set to conform to the applicable regulations per country. As a result, the communication distance depends on environmental conditions and installation location, and may be shorter than expected. Contact TLV for further information.



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

Dimensions

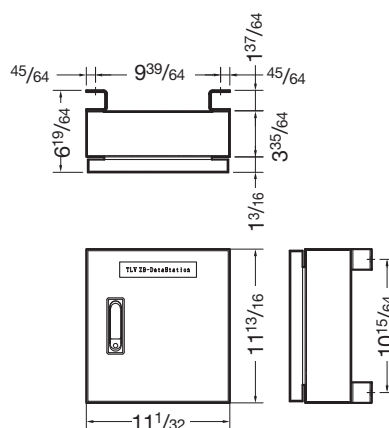
• iT5-ZB-DSN Explosion-proof



Weight: 36 lb

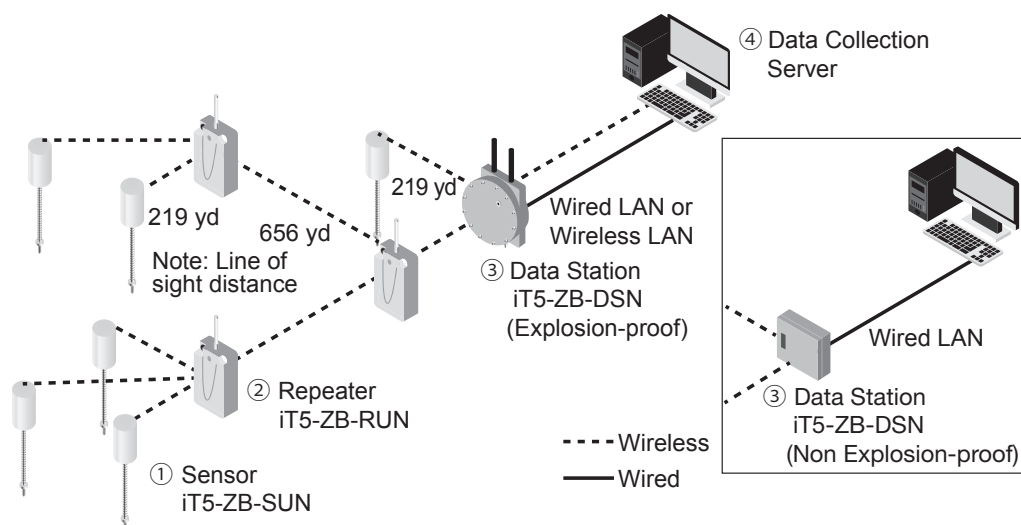
Non explosion-proof

Units: in



Weight: 15.4 lb

System Configuration Example



No.	Model	Function
①	Sensor: iT5-ZB-SUN	Measurement of ultrasound and surface temperature, wireless transmission of information
②	Repeater: iT5-ZB-RUN	Wireless relay of information
③	Data Station: iT5-ZB-DSN	Relay of information via intranet
④	Data Collection Server	Importing collected data

Refer to individual specification data sheets (SDS) for full details.



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.
Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

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Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001
ISO 14001

