

TrapSensor® DATA STATION MODEL iT5-ZB-DSN

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

Features

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.
- 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		
Туре		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 (°C)		-20 to +60		
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. 600 m (with a clear line of sight) Data station and sensor: Approx. 200 m (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)	Hot rolled steel sheet (pickled)	
	Antenna Cover	Polycarbonate	1 for folied steel street (pickled)	

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

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.

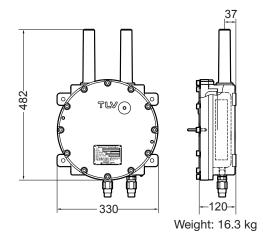
²⁾ Automatically set according to the sensor communication cycle configuration.

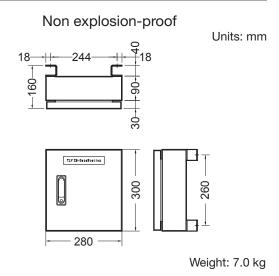


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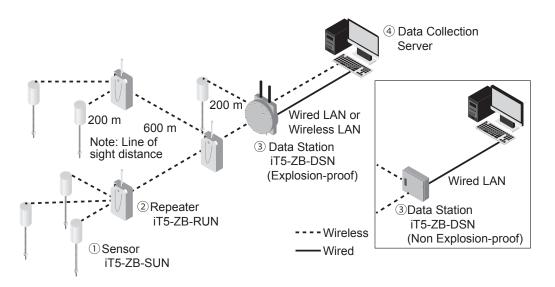
Dimensions

• iT5-ZB-DSN Explosion-proof





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.



