

i TrapSensor REPEATER MODEL iT5-IS-RUN

REPEATER FOR ITRAPSENSOR MONITORING SYSTEM BASED ON ISA 100.11A

Benefits

Repeater for iTrapSensor wireless monitoring sensors. Relays data between monitoring sensors and access point and extends communication distance.

- 1. Enables high frequency monitoring: communication cycles configurable between 1 second and 1 hour.
- 2. Line-of-sight communication distance of 437 yd between repeater and sensors or other repeaters.
- 3. Powered by a long-life battery pack (replaceable in hazardous locations).
- 4. Intrinsically safe construction for use in hazardous and non-hazardous locations.
- 5. Optional extended antenna type for remote antenna mounting.



Specifications

Model		iT5-IS-RUN	
Type		Battery-powered	
Wireless Frequency Band		2.4 GHz	
Maximum No. of Hops		4 (from access point to sensor)	
Communication Cycle 1)		1 second to 1 hour	
Power Source		Non-rechargeable lithium-thionyl chloride battery pack 2 × 2 Rated voltage: 3.6 V Rated capacity: 76 Ah per pack	
Battery Life 3)		10 years for regular operation (5 TLV sensors with 60 s measurement cycle), or 5 years (20 TLV sensors with 60 s measurement cycle)	
Intrinsic Safety Specifications		ATEX: SII 1G Ex ia IIC T4 Ga IECEx: Ex ia IIC T4 Ga UKEX: Ex ia IIC T4 Ga	UL/cUL: Class I, Division 1, Groups ABCD Class I, Zone 0, AEx ia op is IIC T4, Ex ia op is IIC T4
Ambient Temperature (°F)		-40 to + 176	
	Communication Protocol	ISA 100.11a, based on IEEE 802.15.4	
140	Regulatory Compliance	FCC, IC, CE compliant	
Wireless Module	Frequency Bandwidth	2.405 to 2.480 GHz	
	Transmitter Power Output	7.0 mW/MHz	
	Communication Distance	Approx. 400 m 4) (with a clear line of sight)	
Protection Class		IP66 and IP67 (evaluation for intrinsic safety is performed at IP20)	
Material	Body, Cover	Aluminium Alloy Die Castings (ADC3, SG100A)	
Accessory		Mounting bracket	
Option		Antenna extension: 55/16 in antenna with 9.8 ft or 42.7 ft cable (intrinsically safe)	

¹⁾ Automatically set according to the sensor communication cycle settings.

Depends on environmental conditions and installation location.



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.

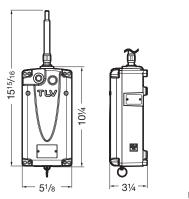
² Battery pack can be replaced in hazardous locations.
3 Battery life is given for an ambient temperature of 77 °F with 1 repeater and may vary depending on environmental conditions such as gateway used, transmission status and ambient temperature. Battery life may decrease more quickly as the number of relaying repeaters increases.



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Dimensions

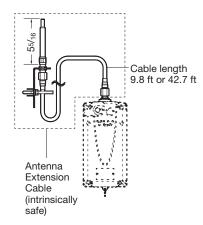
• iT5-IS-RUN



Units: in Approx. Weight: 6.6 lb (incl. battery pack)

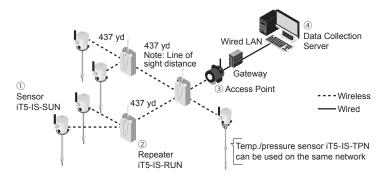
Option

Antenna Extension



Units: in

System Configuration Example



No.	Model	Function
1	Sensor: iT5-IS-SUN	Measurement of ultrasound and surface temperature, wireless transmission of information
2	Repeater: iT5-IS-RUN	Wireless relay of information
<u>(2)</u>	Access Point/Gateway	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.

TLV: CORPORATION

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



ISO 9001

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