

TLX. CO., LTD. Kakogawa, Japan is approved by JRQA Lift. to ISO 9001/4001



Instrction Manual

(Information for Use in Hazardous Locations)

iTrapSensor Monitoring System

Repeater: iT5-ZB-RUN

(ATEX/IECEx/UKEX-certified Model)

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Introduction

Thank you for purchasing the TLV iT5 monitoring system.

This product has been thoroughly inspected before being shipped from the factory. When the product is delivered, before doing anything else, check the specifications and external appearance to make sure nothing is out of the ordinary. Also be sure to read this manual carefully before use and follow the instructions to be sure of using the product properly.

To ensure safe and correct use of this product, be sure to observe the safety precautions listed in this manual as they relate to installation, operation, maintenance and repair of the product. Please keep it in a safe place for future reference.

TLV accepts no responsibility for incorrect use of the product by the customer or any thirdparty, malfunction occurring during use, other defects and any damage caused by this product, excluding cases in which it is under obligation to pay reparations by law.

This product has undergone strict quality management and product inspection before being shipped from the factory. However, in the event of malfunction or defects, please contact your local TLV representative or the TLV customer service center.

This instruction manual and product are subject to modification without notice, for the purpose of improvement.

Unauthorized reprinting or reproduction, in whole or in part, of this instruction manual or contents of the hardware/software of the product is strictly prohibited.

This instruction manual contains information for use in hazardous locations. Be sure to read this instruction manual carefully before installing in hazardous locations. Please use correctly and safely.

Safety Considerations

- Read this section carefully before use and be sure to follow the instructions.
- Installation, inspection, maintenance, repairs, disassembly, adjustment and valve opening/ closing should be carried out only by trained maintenance personnel.
- The precautions listed in this manual are designed to ensure safety and prevent equipment damage and personal injury. For situations that may occur as a result of erroneous handling, three different types of cautionary items are used to indicate the degree of urgency and the scale of potential damage and danger: DANGER, WARNING and CAUTION.
- The three types of cautionary items above are very important for safety: be sure to observe all of them as they relate to installation, use, maintenance and repair. Furthermore, TLV accepts no responsibility for any accidents or damage occurring as a result of failure to observe these precautions.

Cautionary items and definitions



Danger Indicates

Indicates an urgent situation which poses a threat of death or serious injury



Warning

Indicates that there is a potential threat of death or serious injury



Caution

Indicates that there is a possibility of injury or equipment/product damage

General Precautions



Danger

DO NOT disassemble or modify. Failure to observe this precaution could result in personal injury, electrocution, ignition or fire.



Danger

DO NOT use the battery pack other than that specified. Failure to observe this precaution could result in failure, ignition, or explosions.



Danger

DO NOT wipe/rub the surfaces of this product with a dry cloth etc. There is the danger of electrostatically charging the unit, which may result in ignition or explosions, especially in hazardous locations.



Danger

DO NOT use this product in hospitals or airplanes. Failure to observe this precaution could result in malfunction of medical equipment, instrumentation, etc.



Danger

Ensure the specifications for the intrinsically safe structure of this product meet the requirements for installation in hazardous locations. Specifications for the intrinsically safe structure of this product are described in the "Specifications" section.



Danger

Aluminum is used in this product. Do not expose the product to impact or friction. Exposure to impact or friction may result in ignition or accidental explosions.

	Danger When installing or working at high elevations, take measures to ensure against dropping the product or parts. Failure to take such measures could result in personal injury if persons passing below are struck by a falling object, or other accidents.
	Danger Check to make sure that no wireless instrumentation other than the product is being used. Failure to observe this precaution could lead to interference of important transmissions or accidents.
	Danger The equipment contains non-metallic materials and that the user should consider the performance of these materials with respect to chemicals which may be present in the hazardous area. If in doubt, please contact the manufacturer.
	Warning As this is an industrial product, it is not to be used on consumer applications nor in residential areas.
	Warning DO NOT substitute components, as this may impair the intrinsic safety of the product.
	Warning DO NOT install this product on objects exceeding maximum allowable operating temperature. Overheating could result in damage to internal parts, excessive heat generation, rupture or ignition.
	Warning DO NOT subject the unit to strong shocks or throw it against anything. Failure to observe this precaution could result in damage to internal parts, excessive heat generation, rupture, ignition or personal injury.
	Warning DO NOT place device in microwave ovens or high-pressure vessels, or in the vicinity of electromagnetic devices. Such handling could result in excessive heat generation, smoke, damage to circuitry, battery fluid leakage, rupture or ignition.
	Caution Do not allow any foreign matter to enter the unit. In areas with small foreign matter such as metal dust, use the product after taking measures to prevent foreign matter entering the unit.Failure to observe this precaution could result in fire or malfunction.
	Caution Do not let the unit become immersed in water. If liquid gets inside the unit, it may result in excessive heat generation, electrical shock or unit malfunction. Be mindful of the location of use and handling.
Battery	Pack Precautions
	Danger DO NOT apply heat to the battery pack or throw it into a fire. Failure to observe this precaution could result in leakage of the battery fluid, excessive heat generation, rupture or ignition.



Danger

DO NOT disassemble, modify or solder the battery pack. Failure to observe this precaution could result in leakage of the battery fluid, excessive heat generation, rupture or ignition.



Danger

DO NOT cause the batteries to become wet by immersing in water, salt water or liquid chemicals. Failure to observe this precaution could result in leakage of the battery fluid, excessive heat generation, rupture or ignition.



Danger

DO NOT leave unit where it will be exposed to direct sunlight or in areas that will become very hot, such as interiors of cars, near heating equipment, etc. Failure to observe this precaution could result in leakage of the battery fluid, excessive heat generation, rupture or ignition.



Danger

DO NOT replace the battery pack when an explosive atmosphere is present. The battery pack is not intended to be replaced when an explosive atmosphere is present. The battery pack must be replaced when an explosive atmosphere is not present or it must be replaced in a non hazardous location.



Danger

If fluid leaks from the battery pack resulting in eye contact, flush eyes with clean water immediately. There is a danger of loss of vision. Do not rub the eyes, and seek medical care after flushing thoroughly with clean water.



Warning

Cease use of the battery pack immediately if the unit exhibits abnormal operation. If irregularities such as fluid leakage, an unusual smell, unusual heat generation, discoloration or deformation are noticed, cease use of the unit immediately. If use is continued under such conditions, excessive heat generation, ignition or rupture may result.



Warning

If battery fluid leaks and comes into contact with the body, rinse immediately. There is danger of resultant damage to the skin. Immediately rinse any battery fluid off with clean water.



Caution

When not intending to use for extended periods of time, remove the battery pack from the unit and store in a dry, cool, dark location. Failure to observe this precaution could result in fluid leakage, rust, deterioration in performance or a reduction in service life.



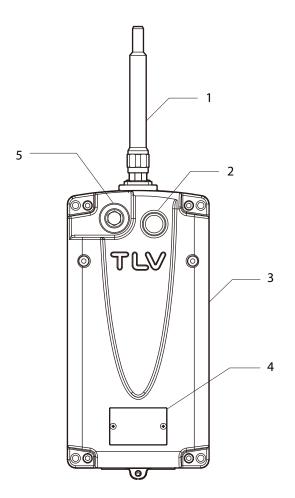
Caution

Do not dispose of the battery pack with normal garbage. If at any time the battery pack becomes unusable, observe your company regulations for proper disposal in accordance with local laws. If proper disposal is impossible, insulate the contact terminals by covering them with tape and return them to a TLV office.

Conditions of safe use (Information for use in hazardous locations)

- Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. This is particularly important if the equipment is installed in a zone 0 or Division 1 location. In addition, the equipment shall only be cleaned with a damp cloth.
- The enclosure is manufactured from aluminum alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a zone 0 or Division 1 location.

Part Names



No.	Part Name
1	Antenna (Resin)
2	Magnetic Switch for Power Supply
3	Case/Cover (Aluminum Alloy Die Castings)
4	Nameplate Mounting Position
5	LED Display Window

Installation



Danger

Ensure the specifications for the intrinsically safe structure of this product meet the requirements for installation in hazardous locations. Specifications for the intrinsically safe structure of this product are described in the "Specifications" section.

Aluminum is used in this product. Do not expose the product to impact or friction. Exposure to impact or friction may result in ignition or accidental explosions.

Do not wipe/rub the surfaces of this product with a dry cloth etc. There is the danger of electrostatically charging the unit, which may result in ignition or explosions, especially in hazardous locations.

The equipment contains non-metallic materials and that the user should consider the performance of these materials with respect to chemicals which may be present in the hazardous area. If in doubt, please contact the manufacturer.



Note

Install in accordance with National Electric Code, Canadian Electrical Code or other applicable Local Codes.

Installing the Repeater

Fix the repeater mount to the structure with U bolts.
 The repeater mount can be installed on either vertical / horizontal structures.



2. Fix the repeater mount to the structure with U bolts.

The repeater mount can be installed on either vertical / horizontal structures.

- 1. Screw two bolts with spacers to the top of the rear side of the repeater.
- 2. Insert the repeater into the repeater mount using the two bolts.
- 3. Tighten the two bolts from the bottom of the front side of the repeater.







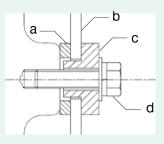
Note Use bolts and spacers supplied by TLV.



Note

For iT5-ZB-RUN (external wired power supply model) only

The repeater and/or the repeater mount must be isolated from structures by bolts, spacers and insulation materials supplied by TLV.



а	Insulation Washer	С	Insulation Collar
b	Repeater Mount	d	Bolt

The earth of the arrester and the earth of the safety barrier must be one point grounding when using an arrester to extend the antenna. For other information about mounting a non-isolated device, see IEC60079-14 16.2.3(b).

Replacing the Battery Pack



Danger

DO NOT disassemble the battery pack. Failure to observe this precaution could result in leakage of the battery fluid, excessive heat generation, rupture or ignition.

Aluminum is used in this product. Do not expose the product to impact or friction. Exposure to impact or friction may result in ignition or accidental explosions.

Do not wipe/rub the surfaces of this product with a dry cloth etc. There is the danger of electrostatically charging the unit, which may result in ignition or explosions, especially in hazardous locations.



Caution

The battery pack can be replaced in hazardous locations.

1. Loosen four screws on the repeater to remove the cover.



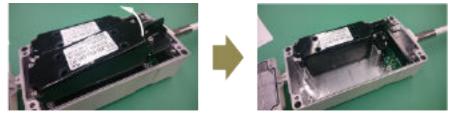
2. The repeater is equipped with two battery packs, however they should be replaced one by one. First remove the screws from each corner of the battery pack to be replaced.



3. Twist the knob by hand, so that the flat side of the knob faces the battery pack to be replaced.



4. Pull the battery pack out from the body.



- 5. Insert a new battery pack and mount it by following the removal procedure in reverse.
 - 1. Insert the battery pack and press until a click is felt.
 - 2. Twist the knob back to the original position so that the flat side faces the opposite direction from the antenna.
 - 3. Secure the battery pack with four screws.
- 6. Remove four screws from the other battery pack. Twist the knob by hand so the flat side of the knob faces the battery pack to be replaced. Perform steps 4 and 5.



7. Replace the packing on the cover and coat surfaces with grease.



8. Make sure that both of the battery packs are securely mounted, then place the cover back on the repeater and secure it with four screws. (Torque: 1.5 N·m (1.1 lbf·ft))

Refer to the iT5-ZB Battery Replacement Procedure for detailed information including battery disposal methods. Follow local regulations when disposing of used battery packs.

Specifications

Туре	iTrapSensor Monite	oring S	ystem – Repeater		
Model	iT5-ZB-RUN				
Classification Markings of Hazardous	ATEX C €2776				
Locations	(Certificate No.: IECEx CML 16.0132X)				
	UKEX Ex ia IIC T4 Ga (Certificate No.: CML 22UKEX2146X)				
	Mark for Certified Electrical Equipment	Ex	_		
	Type of Protection	ia	Intrinsically safe structure (can be used in especially hazardous locations)		
	Applicable Gas Groups	IIC	Applicable to gases (Hydrogen, Acetylene, etc.) with minimum ignition current ratio is less than 0.45.		
	Temperature Class	Τ4	Applicable when maximum surface temperature of the unit is 130 °C (266 °F) and gas ignition temperature is 135 °C (275 °F) or more.		
	EPL (Equipment Protection Level)	Ga	This equipment can be used in Zone 0.		
Applicable Standards	ATEX/UKEX: • EN 60079-11:2012				
• EN IEC 60079-0:2018					
	IECEx:				
	 IEC 60079-0:2017, Edition 7 IEC 60079-11:2011, Edition 6 				
Nameplate	The it5-ZB-RUN-Z-(A)-ZZ-Z-(B) COME it5-ZB-RUN-Z-(A)-ZZ-Z-(B) COME it5-ZB-RU-BP-(A) COME it6				
Power Source	Battery Pack Lithium thionyl chloride battery Rated Voltage: 3.6 V Rated Capacity: 76 Ah × 2				
Enclosure			safety rating is carried out under IP20)		
Wireless Module	Module TELEC: 🕃 018-150057 FCC ID: H3RTZRR1001 IC: 7221A-TZRR1001				
	Frequency Band: 2.405 GHz to 2.480 GHz RF Power Output: 10 mW/MHz Transmitting Range: Approximately 400 m (437 yd) (line of sight)				

Material	Case/Cover: Aluminum alloy die castings (ADC3, SG100A)
Dimensions (Unit: mm (in))	Antenna: Resin
	(5 ¹ / _B) (3 ⁷ / _B)
Weight	Approx. 3 kg (6.6 lb) (including battery pack)

FCC and IC Statement

This device complies with Part 15 of the Federal Communications Commission (FCC) rules and Industry Canada (IC) RSS-210. Operation is subject to the following two 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.

Ce dispositif est conforme à la norme RSS 210 d'Industrie Canada. L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes :

- 1. il ne doit pas produire de brouillage et
- l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

TLV EXPRESS LIMITED WARRANTY

Subject to the limitations set forth below, TLV CO., LTD., a Japanese corporation ("**TLV**"), warrants that products which are sold by it, TLV International Inc. ("**TII**") or one of its group companies excluding TLV Corporation (a corporation of the United States of America), (hereinafter the "**Products**") are designed and manufactured by TLV, conform to the specifications published by TLV for the corresponding part numbers (the "**Specifications**") and are free from defective workmanship and materials. The party from whom the Products were purchased shall be known hereinafter as the "**Seller**". With regard to products or components manufactured by unrelated third parties (the "**Components**"), TLV provides no warranty other than the warranty from the third party manufacturer(s), if any.

Exceptions to Warranty

This warranty does not cover defects or failures caused by:

- 1. improper shipping, installation, use, handling, etc., by persons other than TLV, TII or TLV group company personnel, or service representatives authorized by TLV; or
- 2. dirt, scale or rust, etc.; or
- 3. improper disassembly and reassembly, or inadequate inspection and maintenance by persons other than TLV or TLV group company personnel, or service representatives authorized by TLV; or
- 4. disasters or forces of nature or Acts of God; or
- 5. abuse, abnormal use, accidents or any other cause beyond the control of TLV, TII or TLV group companies; or
- 6. improper storage, maintenance or repair; or
- 7. operation of the Products not in accordance with instructions issued with the Products or with accepted industry practices; or
- 8. use for a purpose or in a manner for which the Products were not intended; or
- 9. use of the Products in a manner inconsistent with the Specifications; or
- 10. use of the Products with Hazardous Fluids (fluids other than steam, air, water, nitrogen, carbon dioxide and inert gases (helium, neon, argon, krypton, xenon and radon)); or
- 11. failure to follow the instructions contained in the TLV Instruction Manual for the Product.

Duration of Warranty

This warranty is effective for a period of one (1) year after delivery of Products to the first end user. Notwithstanding the foregoing, asserting a claim under this warranty must be brought within three (3) years after the date of delivery to the initial buyer if not sold initially to the first end user.

ANY IMPLIED WARRANTIES NOT NEGATED HEREBY WHICH MAY ARISE BY OPERATION OF LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY EXPRESS WARRANTIES NOT NEGATED HEREBY, ARE GIVEN SOLELY TO THE INITIAL BUYER AND ARE LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF SHIPMENT BY THE SELLER.

Exclusive Remedy

THE EXCLUSIVE REMEDY UNDER THIS WARRANTY, UNDER ANY EXPRESS WARRANTY OR UNDER ANY IMPLIED WARRANTIES NOT NEGATED HEREBY (INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE), IS **REPLACEMENT**; PROVIDED: (a) THE CLAIMED DEFECT IS REPORTED TO THE SELLER IN WRITING WITHIN THE WARRANTY PERIOD, INCLUDING A DETAILED WRITTEN DESCRIPTION OF THE CLAIMED DEFECT AND HOW AND WHEN THE CLAIMED DEFECTIVE PRODUCT WAS USED; AND (b) THE CLAIMED DEFECTIVE PRODUCT AND A COPY OF THE PURCHASE INVOICE IS RETURNED TO THE SELLER, FREIGHT AND TRANSPORTATION COSTS PREPAID, UNDER A RETURN MATERIAL AUTHORIZATION AND TRACKING NUMBER ISSUED BY THE SELLER. ALL LABOR COSTS, SHIPPING COSTS, AND TRANSPORTATION COSTS ASSOCIATED WITH THE RETURN OR REPLACEMENT OF THE CLAIMED DEFECTIVE PRODUCT ARE SOLELY THE RESPONSIBILITY OF BUYER OR THE FIRST END USER. THE SELLER RESERVES THE RIGHT TO INSPECT ON THE FIRST END USER'S SITE ANY PRODUCTS CLAIMED TO BE DEFECTIVE BEFORE ISSUING A RETURN MATERIAL AUTHORIZATION. SHOULD SUCH INSPECTION REVEAL, IN THE SELLER'S REASONABLE DISCRETION, THAT THE CLAIMED DEFECT IS NOT COVERED BY THIS WARRANTY, THE PARTY ASSERTING THIS WARRANTY SHALL PAY THE SELLER FOR THE TIME AND EXPENSES RELATED TO SUCH ON-SITE INSPECTION.

Exclusion of Consequential and Incidental Damages

IT IS SPECIFICALLY ACKNOWLEDGED THAT THIS WARRANTY, ANY OTHER EXPRESS WARRANTY NOT NEGATED HEREBY, AND ANY IMPLIED WARRANTY NOT NEGATED HEREBY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, DO NOT COVER, AND NEITHER TLV, TII NOR ITS TLV GROUP COMPANIES WILL IN ANY EVENT BE LIABLE FOR, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO LOST PROFITS, THE COST OF DISASSEMBLY AND SHIPMENT OF THE DEFECTIVE PRODUCT, INJURY TO OTHER PROPERTY, DAMAGE TO BUYER'S OR THE FIRST END USER'S PRODUCT, DAMAGE TO BUYER'S OR THE FIRST END USER'S PROCESSES, LOSS OF USE, OR OTHER COMMERCIAL LOSSES. WHERE, DUE TO OPERATION OF LAW, CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER THIS WARRANTY, UNDER ANY OTHER EXPRESS WARRANTY NOT NEGATED HEREBY OR UNDER ANY IMPLIED WARRANTY NOT NEGATED HEREBY (INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) CANNOT BE EXCLUDED, SUCH DAMAGES ARE EXPRESSLY LIMITED IN AMOUNT TO THE PURCHASE PRICE OF THE DEFECTIVE PRODUCT. THIS EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES, AND THE PROVISION OF THIS WARRANTY LIMITING REMEDIES HEREUNDER TO REPLACEMENT, ARE INDEPENDENT PROVISIONS. AND ANY DETERMINATION THAT THE LIMITATION OF REMEDIES FAILS OF ITS ESSENTIAL PURPOSE OR ANY OTHER DETERMINATION THAT EITHER OF THE ABOVE REMEDIES IS UNENFORCEABLE, SHALL NOT BE CONSTRUED TO MAKE THE OTHER PROVISIONS UNENFORCEABLE.

Exclusion of Other Warranties

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED.

Severability

Any provision of this warranty which is invalid, prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such invalidity, prohibition or unenforceability without invalidating the remaining provisions hereof, and any such invalidity, prohibition or unenforceability in any such jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction.

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