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# CATALOGUE

## RIU Series



Doc. no. : RIU\_E\_Rev.0

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**Overview**

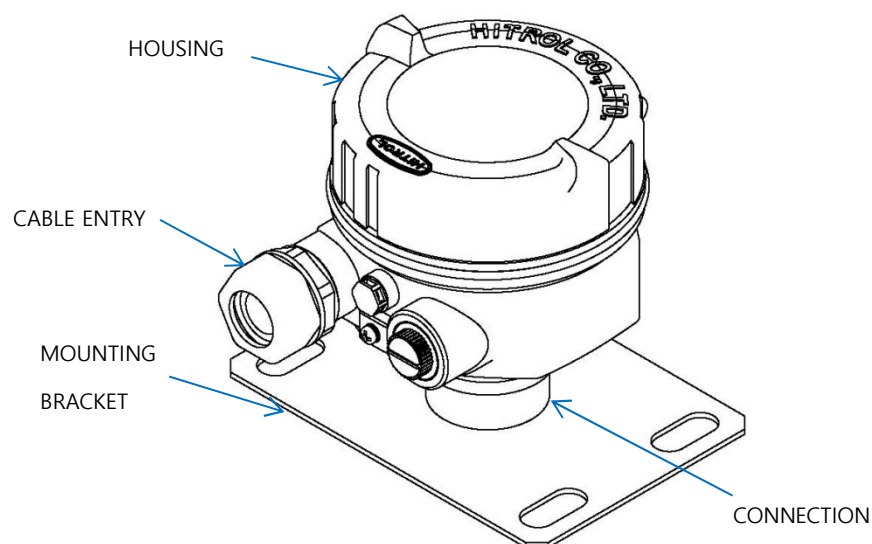
RIU-Series is a display unit, which receives a resistance signal from a Resistance Type of Level Transmitter, converts this resistance value to current output of DC 4~20mA, and displays it. RIU-Series have a function to check and adjust a setting using laptop through UART Communication port.

**Characteristics**

- Digital Operating System based on 16 Bit Microprocessor
- Various Display Type
- Easy adjustment, stable operating and convenient maintenance using key buttons.
- High Accuracy ( $\pm 0.2\%$  F.S)
- Fine-adjustment of current signals suitable for field operation
- Intuitive operation and monitoring function using USB port on laptop
- View and Rotation function according to user setting
- Ex-proof type available

**Operating**  
**Principles and**  
**Composition**

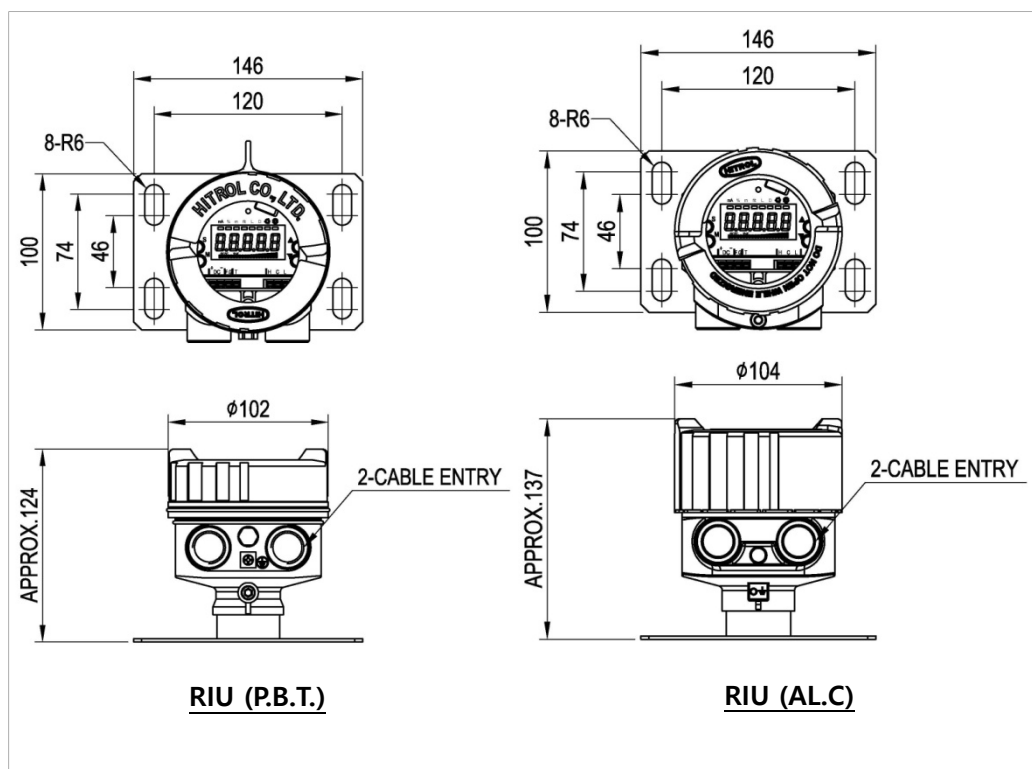
RIU-Series is a digital display unit which is used with a resistance type level transmitter. It receives a resistance signal from the level transmitter, stores and calculates it based on a microprocessor, and enables to check the level of medium in the tank with visual and DC 4~20mA current signal according to the setting by the user.

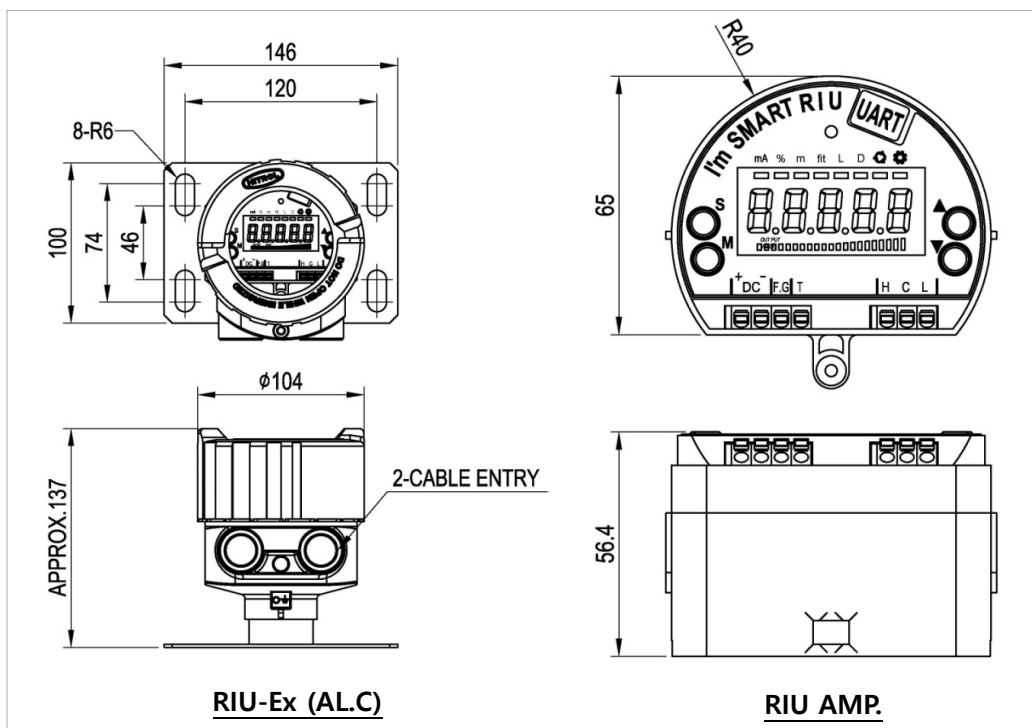


## Specification

Model	RIU (Standard)	RIU-Ex (Explosion-Proof)
Enclosure	Weather Proof (IP65/IP66)	Ex d IIC T6 (IP65)
Material	P.B.T. / ALC	ALC
Mounting	Local	
Microprocessor	16Bit Microprocessor	
Combination Unit	2Wire DC4~20mA Resistance Type Level Transmitter	
Display	mA, %, m, ft, Level, Distance	
Supply Voltage	DC+17V ~ +40V @ Typ.+24V	
Output Current Accuracy	4mA ~ 20mA @ $\pm 0.2\%$ F.S	
Measurement Sensor Range	<ul style="list-style-type: none"> <li>■ Min. : 200<math>\Omega</math> [100mm]</li> <li>■ Max. : 12K<math>\Omega</math> [6M] @ 20<math>\Omega</math> Sensor</li> </ul>	
Self-Diagnosis (3.6mA Current Output)	<ul style="list-style-type: none"> <li>■ In case the level is below the Zero setting point</li> <li>■ In case of float breakaway</li> <li>■ In case of incomplete sensor cable connection</li> </ul>	
Self-Diagnosis (21mA Current Output)	<ul style="list-style-type: none"> <li>■ In case the level is above the Span setting point</li> </ul>	
Setting Menu	Quick Menu / Set Menu / Auto Set	
Ambient Temperature	-20°C ~ +60°C	
Status Indicator	Bi-Color LED [Green / Red / Orange]	
UART Communication	Check and adjustment of setting status	

## Dimensions





## Wiring / AMP Composition



Any tools are not required when wiring because it has one-touch type terminal block.  
(AWG 26~14 Str 0.13mm<sup>2</sup>~2.1mm<sup>2</sup> wire should be used for the wiring.)



While wiring, the wrong connection of H, C, and L is the cause of the product failure.

## Installation

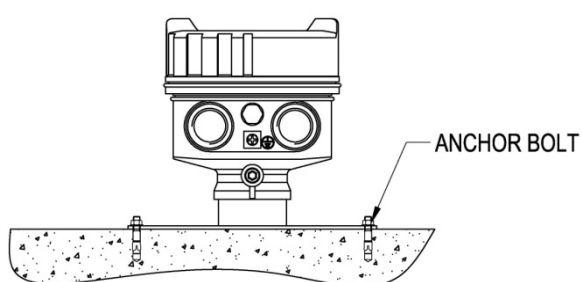
The RIU-Series shall be installed in a non-vibration location by bolted to a wall or a 2" (50A) pipe. If it is installed where the vibration is unavoidable, the user shall pay special attention for loosening of the bolts fixed by vibration.

M10 is recommended as a maximum bolt size.

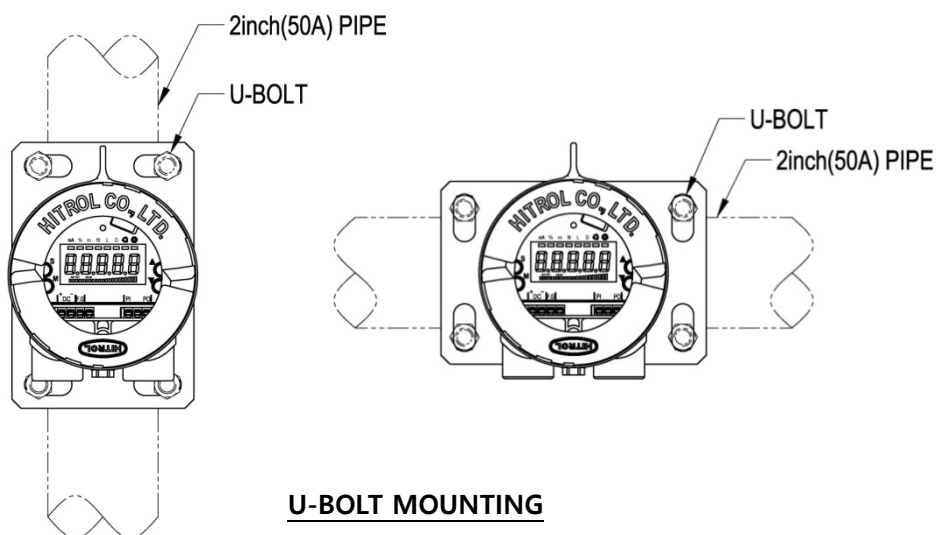
Unless otherwise requested, installation bolts and pipes are not provided.

In addition, note the following:

- Use only within ambient temperature -20°C to +60°C.
- Install it where it can be seen visually.



**ANCHOR BOLT MOUNTING**



**U-BOLT MOUNTING**

**Warranty and  
Contact****■ Warranty and Service**

The warranty period of this product is two years after shipment of the product and after sales service will be provided free of charge during this period for problems that would have occurred during normal use. If after sales service service is requested for matters other than product issues, charges may be requested regardless of the warranty period.

A/Scan be requested through our website or below head office.

**■ Head office · Factory · Laboratory Contact Number**

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