Explosion-proof Retrofit IoT Meter Reading Sensor

Remote Instrumentation Monitoring in Hazardous Areas.

World's smallest explosion-proof meter-reading sensor (Salta®-Ex)

Equipped with two wireless communication functions

LoRa®
Supports long-range wireless communications
Range approx.
200 to 300 meters*

Bluetooth®
(Bluetooth®5.1)
Range approx.
20 to 50 meters*

*Images are for reference only, and do not represent actual product.

*Communication range varies depending on the environmental conditions at the site.

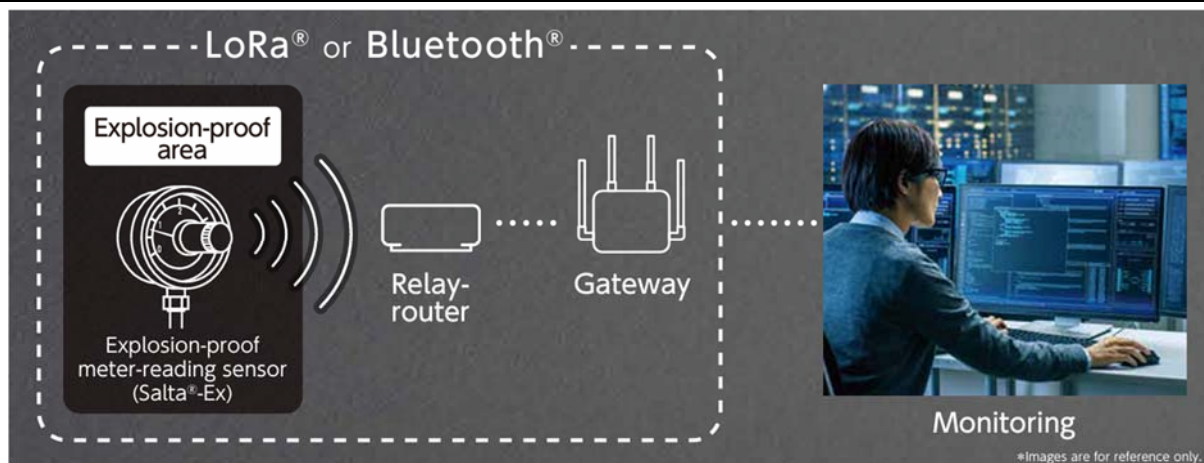## Automation of Instrumentation Monitoring in Explosion-proof Areas

■ Applications

- Remote monitoring of values of analog (central axis pointer) meters in explosion-proof areas

  Due to the shrinking labor population and rising costs, many factories have changed course to digital transformation (DX). Especially in equipment inspection businesses in places where there are explosion hazards, such as at petroleum/chemical plants or product painting lines, we see growing demand for labor-saving solutions.

Applications

Features

- Easily retro-fittable to analog meters (central axis pointer meters) installed in explosion-proof areas

- Through technical collaboration with KOBATA GAUGE MFG. CO., LTD, a meter-reading sensor unit of world's smallest class is realized; integrating sensor, wireless module, and battery unit in a compact housing of 27 mm width that does not disturb visual meter reading

- The communication module is equipped with LoRa® and Bluetooth® LE, with the mode selected according to the application; LoRa® for communication distance, Bluetooth® LE for energy-saving.

- Explosion-proof structure design allows battery unit replacement in an explosion-proof area (Zone 0).

Specifications

Item	Specification
Product No.	CFU0655
Explosion-proof Standard	Ex ia IIC T5 Ga, Ex ia IIIC T85℃ Da
Protective Structure	IP65 equivalent
Operating Temperature Range	−10 to 60℃
Dimensions (L x W x D)	33 × 27 × 39mm
Wireless Communications	LoRa®, Bluetooth® 5.1

*"Salta®-Ex" is on sale by KOBATA GAUGE MFG., CO., LTD. The Salta® is a registered trademark owned by KOBATA GAUGE MFG., CO., LTD. *The Bluetooth® word mark and the logo are registered trademarks owned by Bluetooth SIG, Inc. Hosiden Corporation uses the mark and logo under a licensing agreement. *The LoRa® Mark is a trademark of Semtech Corporation or its subsidiaries

●Specification indicated in this Technical Report is outline only at present. Any products in this Technical Report are subject to any modification for further development and the products improvements without prior notification. ●When employing the product, use of an officially authorized specification is recommended. ●Please feel free to contact us with any enquiries about our products and their uses.