

既存のメータに後付け、計測値を遠隔モニタリングできるアナログメータ遠隔監視システム

Attach to existing meters to remotely monitor readings



メータの指針の動きを磁気で計測。定点観測作業をなくし、遠隔での監視・管理を実現します。カメラ方式と比較して省エネ・省スペースかつ耐環境に優れ、既存の設備へ簡単に後付け可能。作業員の業務負荷を削減するだけでなく読み取りや転記のミスも減らせるため、正確に記録しながら業務の効率化が図れます。

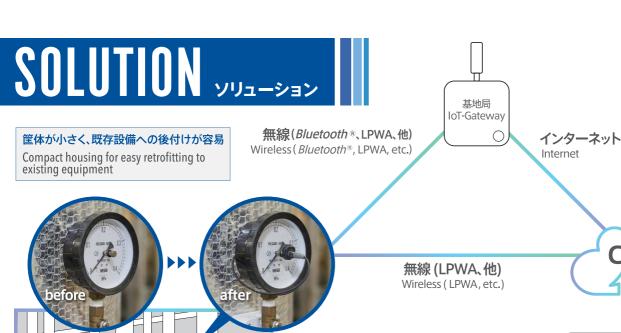
Magnetically measure movements of pointers on meter dials. This system eliminates fixed-point observation work, enabling remote monitoring and management. It provides greater energy and space efficiency than camera-based systems, as well as outstanding environmental durability, and is easy to retrofit to existing equipment. And not only does the system reduce the workload, it helps lower the frequency of reading and transcription errors. Work efficiency is improved while accurate records are kept.

IoT化 ニーズ

IoT needs

- 作業者の定点観測工数削減

 Reduction of worker fixed point observation we
 - Reduction of worker fixed-point observation workload
- 品質維持改善データ活用
 Quality maintenance and improvement data utilization
- 残量遠隔モニタリングサービス Remote monitoring services for ascertaining remaining levels
- 異常値監視、安心・安全 Abnormal level monitoring and safety/security





Cloud

表示アプリ(IoT FastKit) Display app (IoT FastKit)

省力 Labor savings

作業員の 業務負荷削減

Reduce the work burden

正確 **Accuracy**

読取・転記ミスなく 正確に記録

Keep accurate records without reading/transcription errors

履歴 Data history

算出原理 Computation Principle

sent with a magnetic sensor

●クラウドにて角度算出 ●アプリにてメーター値変換

●磁気センサにて角度算出データを測定&送信

• Data for angle computation measured and

Angle computed in a cloud environment

Angle converted to a meter reading with an app

履歴を蓄積することで 傾向把握、気づきを促進

Accumulate past data to identify trends and make observations

高所・狭所・暗所・悪環境への 立入を減らして危険から守る

Keep workers out of danger by reducing access to high, cramped or dark places, or adverse environments

Detection

設定閾値を超えると アラートで通知

Receive alerts when readings exceed a set threshold



- ■通信形態: Sigfox & Bluetooth® (選択可)
- ■動作温度:-20℃~+60℃
- ■電池駆動: CR123A (約1400mAh); 電池寿命: 60分毎で3年
- ■IP67 防水/防塵構造
- ■測定精度:角度誤差1°以内*

磁気センサと指針磁石の中心点ズレがない場合

- ■Communication System: Sigfox & Bluetooth® (Selectable)
- ■Operating temperature: -20°C to+60°C
- ■Battery powered: CR123A (approx. 1400mAh); Battery life: 3 years at once an hour
- ■IP67 dust and water resistant structure
- ■Measurement precision: Angle error within 1°

*Assuming no off-center misalignment between magnetic sensor and pointer magnet

- ※こちらのパンフレットは2020年4月1日から1年間有効です
- *This pamphlet is valid for 1 year from April 1, 2020
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