TEKON
WIRELESS SENSORS TECHNOLOGY

WIRELESS

SYSTEM+
PLUS+

Monitoring multiple process sensors
in a single system

FLEXIBLE AND COST-EFFECTIVE SYSTEM (NO CABLES AND INSTALLATION COSTS)
MONITORING OF DIFFERENT ANALOG SIGNALS
SCALABLE SOLUTION (UP TO 55 TRANSMITTERS PER GATEWAY)
AUTOMATIC MESH NETWORK MANAGEMENT
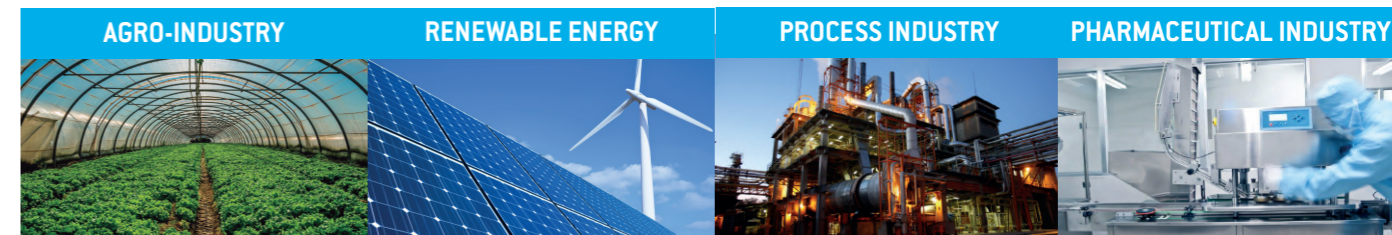EASY TO INSTALL AND CONFIGURE
REMOTE ON/OFF

WIRELESS
SYSTEM
PLUS+

Connect your sensors of choice to our wireless network and benefit of an easy and fast cable replacement solution.
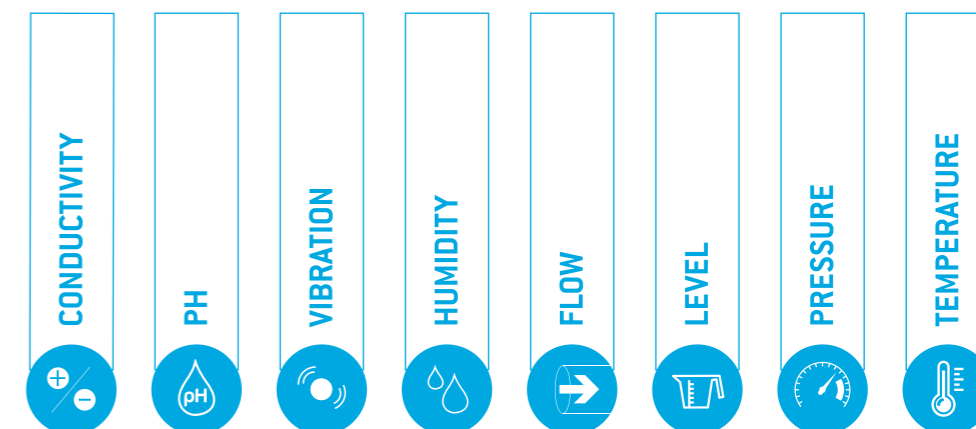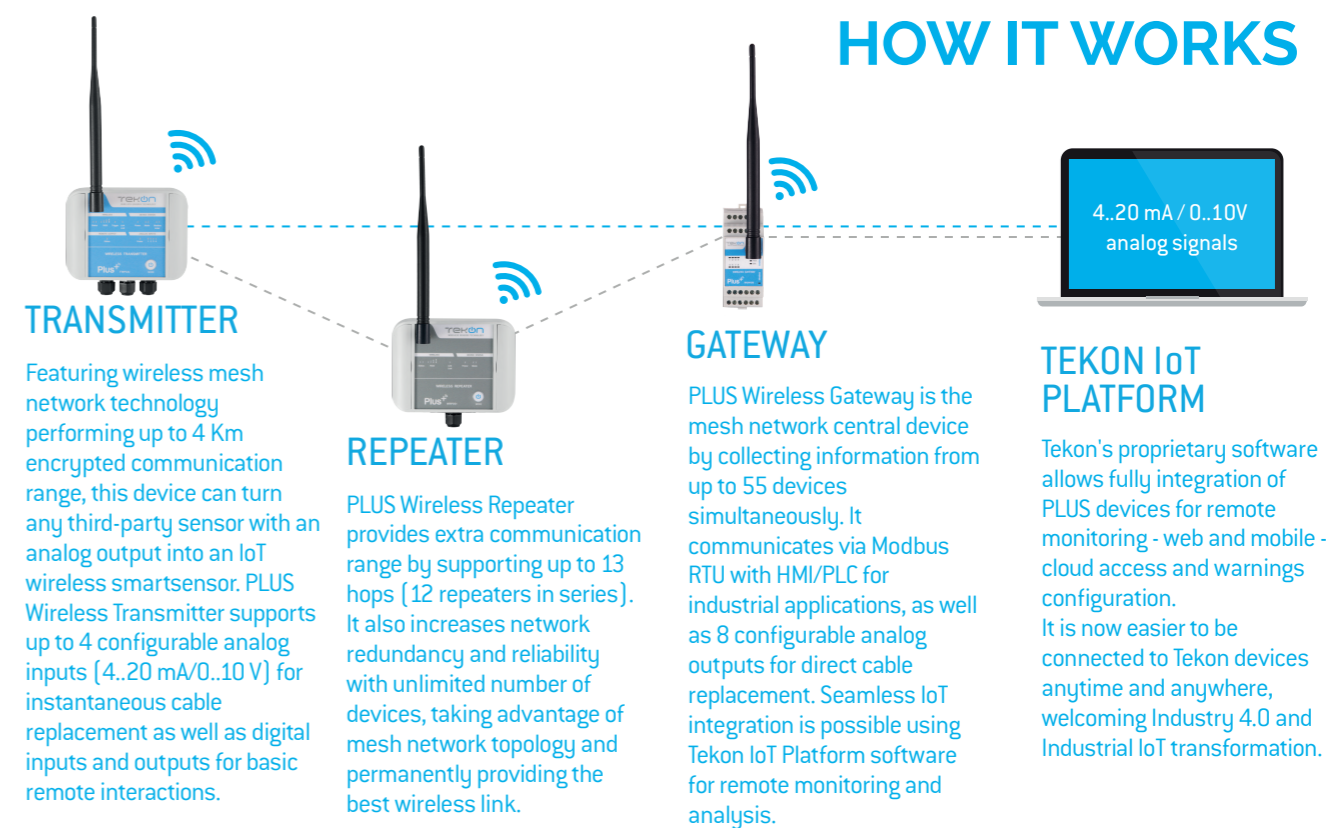
- 4 configurable analog inputs (0..20 mA or 0..10 V) providing cable replacement features;
- 3 configurable digital outputs: generic, RF link lost indication and external power control;
- Configurable communication period and/or event trigger via digital input;
- Up to 4 Km communication distance (LoS) with 868 MHz and 128-bit AES encryption;
- Multi-hop mesh network with self-forming, self-healing and self-optimizing features;
- Internal temperature, battery voltage and wireless link quality (RSSI) monitoring;
- Extreme operating temperature range -30ºC to 80ºC and IP65 protection;
- Simple and intuitive USB configuration via Tekon Configurator (free software).

HOW IT WORKS

TRANSMITTER

Featuring wireless mesh network technology performing up to 4 Km encrypted communication range, this device can turn any third-party sensor with an analog output into an IoT wireless smartsensor. PLUS Wireless Transmitter supports up to 4 configurable analog inputs (4..20 mA/0..10 V) for instantaneous cable replacement as well as digital inputs and outputs for basic remote interactions.

REPEATER

PLUS Wireless Repeater provides extra communication range by supporting up to 13 hops (12 repeaters in series). It also increases network redundancy and reliability with unlimited number of devices, taking advantage of mesh network topology and permanently providing the best wireless link.

GATEWAY

PLUS Wireless Gateway is the mesh network central device by collecting information from up to 55 devices simultaneously. It communicates via Modbus RTU with HMI/PLC for industrial applications, as well as 8 configurable analog outputs for direct cable replacement. Seamless IoT integration is possible using Tekon IoT Platform software for remote monitoring and analysis.

4..20 mA / 0..10V analog signals

TEKON IoT PLATFORM

Tekon's proprietary software allows fully integration of PLUS devices for remote monitoring - web and mobile - cloud access and warnings configuration.
It is now easier to be connected to Tekon devices anytime and anywhere, welcoming Industry 4.0 and Industrial IoT transformation.

POTENTIAL SENSORS

| CONDUCTIVITY | PH | VIBRATION | HUMIDITY | FLOW | LEVEL | PRESSURE | TEMPERATURE |

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