

Remote Analytic Line Monitoring (REALM)

Where a complete intuitive system solution for reduced maintenance, downtime, financial losses and increased safety and efficiency are no longer beyond the REALM of possibility.

A predictive and reactive maintenance strategy is essential for maintaining chain drives. The integration of the **iwis®** Chain Condition Monitoring – Smart system **CMs** and Weidmüller's u-remote system with IO-Link capability, combines the concept of IoT and physical chain properties. This makes a complete, harmonized system solution for the monitoring of precision chain applications, a reality to maximize the efficiency of systems and machines for improved performance and greater productivity.

Plug and Play Commissioning

Pre-engineered box orderable under a single part number, provides a complete, pre-wired system solution for easy access and connection to four iwis sensors, resulting in increased installation and start-up times and reduced wiring errors.

Design Flexibility

System can be retrofitted to support any common fieldbus protocol; additional comm ports (USB, ethernet) and wireless devices for expanding communications capabilities; and the option to daisy-chain (2) boxes for monitoring up to (8) sensors*.

Cyclic and Acyclic Data Exchange

Each IO-Link Master provides up to 64 bytes of process data, based on Modbus protocol, for retrieving essential predictive and preventive data from the iwis sensor, such as:

- chain length
- temperature
- device status, and more
- link count
- direction
- distance

Automatic Parameter Redeployment

Device parameters are stored in the Weidmüller IO Link Master, making it possible to seamlessly replace sensors during operation; minimizing downtimes and eliminating the need for re-configuration.

u-remote IO-Link Device Configurator

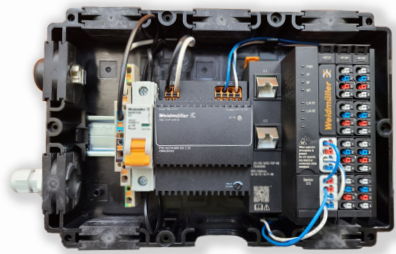
Web-based user interface for integrating, configuring and monitoring of IO-Link sensors in real-time through direct access to device identification, process status, diagnostics, and error messages.



System Overview

Pre-engineered box will power and communicate with up to (4) iwis chain sensors using Modbus TCP protocol through a single cable (one for each iwis sensor).

1. 120V AC power is to be brought in through the supplied M16 cable gland and connected to the MCB 1077 breaker.
2. The included M8 sensor cables plug directly to the iwis chain sensors and supply power to them through the input current path; while also providing sensor communications back to the u-remote system.
3. An ethernet cable plugs directly into the RJ45 ethernet port that is accessible from outside of the box for establishing communications between the u-remote system and the host master.
4. Easily configure the parameters of the iwis sensors through the embedded Weidmuller software.



General Specifications

Order No.	7940126009	Remote Analytic Line Monitoring (REALM) System Solution
Configuration Software	Integrated Webserver / IO-Link Configurator	Engineering through an integrated license free web server that is independent of operating system and web-browsers.
Status Indication	Per Channel	LEDs are designed into the module and each channel, which provides quick and accurate detection of I/O status that can be observed through the enclosure lid.
Rated Input Voltage	AC Input	100 - 240 VAC
Dimensions	Compact Design	284 mm x 155 mm x 196 mm (11.181" x 6.102" x 7.717") *dimensions are subject to change based on any requested modifications

Applications

More Performance. Simplified.

Weidmuller’s u-remote system with IO-Link capability combined with iwis CCM-S for a complete transparency down to the conveyer line for identifying potential repairs or required adjustments, in advance to reducing costly downtimes.

With the expanded compatibility of all common industrial protocols and standards, Weidmuller’s u-remote system solution with IO-Link, can be easily integrated into existing system networks and new industrial communication systems.

- Ethernet/IP
- Ethernet POWERLINK
- EtherCAT
- PROFIBUS DP
- PROFINET IRT
- DeviceNet
- Modbus TCP
- CANopen
- CC-Link

