



# MAKE DATA FLOW!

**EBRO Smart Box Unit SBU IO-Link**  
A new dimension of digital valve  
management

# FINALLY COMPLETE CONTROL!

SENSORS • CONNECTIVITY • COMMUNICATION

## EBRO SBU IO-Link

For greater safety and cost-effectiveness in system and process control.

In conjunction with the new EBRO Smart Box Unit, EBRO valves and actuators serve as a high-performance functional unit. Live operating data is collected via external and integrated sensors and sent to system and process control via IO-Link. Actuators can be controlled either via IO-Link or, as previously, via a conventional port.

The new SBU IO-Link enables effective limit position monitoring and simultaneously improves operational reliability, thus increasing process availability. It also fulfils the requirements for optimisation of service and maintenance management. Faults and anomalies can be identified immediately and appropriate corrective action can be implemented. Equipped with a Bluetooth interface, SBU IO-Link is also IIoT-ready. In addition, the key parameters can be read out via the proven EBRO Connect app.

- Safe and reliable transmission of data
- Provision of data for monitoring and analysis
- Plug & Play using IO-Link and compressed air
- Bluetooth® for wireless data retrieval
- If customisable limits are exceeded, warning messages are issued before a failure can occur.
- Simple integration into existing process and system controls, e.g. Profibus or Profinet
- Incorporation of external sensors via analogue and digital process inputs
- Operation also in conjunction with linear actuators, hand levers and gears
- IO-Link can be retrofitted into all common systems. It can also be operated as a stand-alone solution
- Conventional connection possible via terminal block

 **IO-Link**

 **Bluetooth®**





### Integrated temperature sensor

- Monitoring of SBU IO-Link equipment temperature
- Warns of undershoots and overshoots in permissible operating temperature, thus preventing sudden failures

### Connection of external sensors

- Internal connection block for two analogue sensors and two digital sensors
- Key operating parameters (e.g. filling level, system pressure, temperature, etc.) can thus be collected and sent to process control via IO-Link

### Variable-colour LEDs

- Device status visible at close range due to visual colour representation
- Status messages are freely programmable
- Colours can be assigned individually to different operating states

### Top-quality limit switch solution with limit position monitoring

- Position feedback and limit position detection are contactless and wear-free due to magnetic Hall effect
- Adjustable actuation range for safe and accurate detection of limit position
- Switching frequencies, actuation times and actuation changes can be requested

### Integrated acceleration sensor

- Detects vibrations of the positioning system and the pipeline
- Individually defined limit values warn of inadmissible vibrations within the installation
- Detection of pressure surges within the installation
- Acceleration monitoring helps to detect anomalies
- Serves as data basis for condition monitoring or predictive maintenance

### Plug & Play

- SBU IO-Link is delivered completely ready for connection
- No further assembly work is required on the system side
- Power supply and data transmission (IO-Link) take place via the M12 connector

### Wireless data retrieval via Bluetooth®

- Convenient monitoring of operating data with the EBRO Connect app
- Prepared for integration into IIoT systems by the customer

### Efficient service and maintenance management

- Data transmitted can be used to derive current operating states and signs of wear in the butterfly valve
- Necessary service and maintenance activities can be initiated immediately

**IIoT-Ready**

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Our international network



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