

8-port IO-Link master module with LINERECORDER AGENT embedded



Easy communication with the PLC and in parallel to the LINE-RECORDER SMARTOBSERVER*

- 8 IO-Link ports V1.1 with COM1, COM2, COM3 and SIO support
- 10 extra binary inputs 24 V DC and 2 configurable binary inputs/outputs
- 2 Ethernet ports 10/100 Base-TX with integrated switch
- Slim housing for control cabinet mounting
- Extended temperature range of 0...70 °C



Interface for factory networking

With the integrated LINERECORDER AGENT, this master enables direct networking of all connected IO-Link devices with a local server via an Ethernet network. Using this connection, machine data, process parameters and diagnostic data can be directly read and processed by the IT. The easy-to-use server software LINERECORDER SMARTOBSERVER* enables data evaluation by means of customer-specific cockpits. Using the same communication mechanisms, it is possible to directly couple machines and exchange production-related data.

From sensor to SAP

For the first time, sensor data can be directly transmitted to management software - and this on a factory-wide or even worldwide level. Evaluation of the obtained data in real time enables an increase in production efficiency and energy savings in the context of Industry 4.0.



The IO-Link master module for different applications: from machine condition monitoring to remote maintenance of wind parks.

*LINERECORDER SMARTOBSERVER is a server-based software for data storage, predictive maintenance and quality monitoring.

Special features

Ethernet interface for PLC connection

This IO-Link master operates as an input/output card with a total of 20 I/Os, of which 8 are for IO-Link devices and the rest for binary signals.

All signals can be easily transmitted to compatible controllers via the standard fieldbuses EtherNet/IP or Profinet.

Two ways simultaneously = PLC and server in parallel

So far, all sensor signals had to be sent by the PLC to higher-level systems. This is now done via a parallel communication path (Y path). The PLC program remains unchanged.

Integrated web server for configuration and diagnostics

No special software is required for configuration. All IO-Link settings can be made via the integrated web interface. To do so, a standard PC with Ethernet connection and web browser is required.

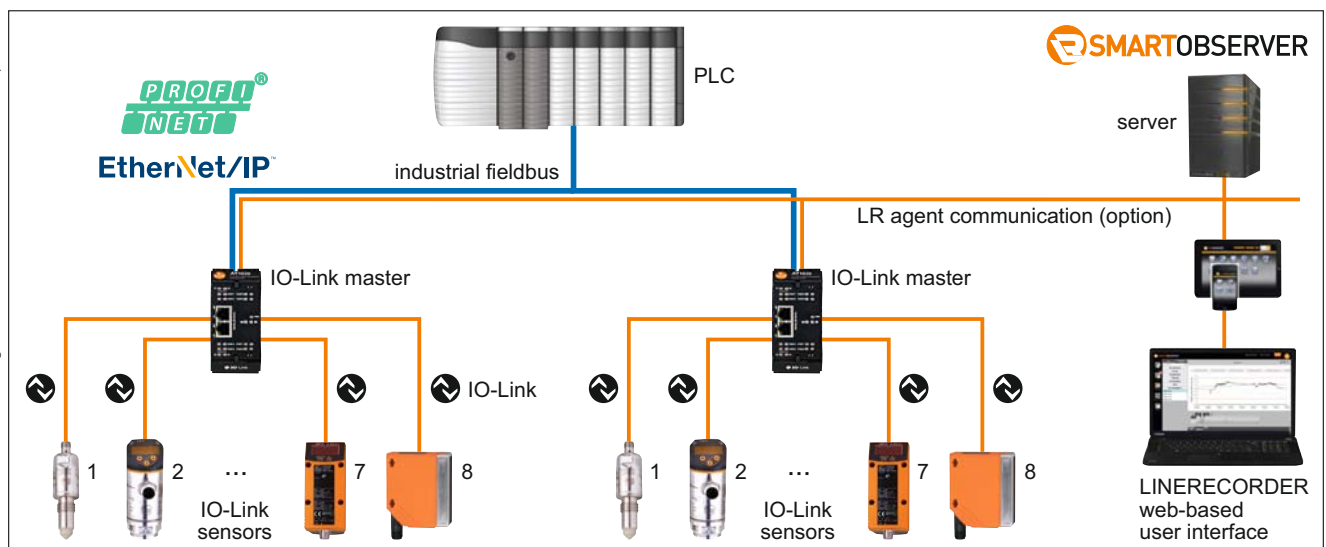
Convenient IODD integration

Via the web interface, up to 8 different IODDs (IO-Link device descriptions) can be loaded into the master. After connection of the IO-Link devices, the corresponding IODDs are automatically assigned to the connected IO-Link devices and the corresponding ports.

Technical data

IO-Link master module for connection to fieldbuses		
"Y" path for PLC data exchange and a parallel connection to the server via LINERECORDER AGENT		
Order no.	AY1020	AY1000
Fieldbus connection	EtherNet/IP	Profinet
Further protocols	Modbus / TCP (slave)	
Supply voltage [V]	18...30 DC	
Current consumption [A]	2 (24 V)	
IO-Link version	1.1	
Number of IO-Link ports	8	
Parameter memory	•	
IO-Link port A / port B	up to 8, configurable	
Inputs/outputs	IO-Link / SIO	configurable
IO-Link baud rates	COM 1...3	4.8k, 38.4k, 230.4kBaund
Digital inputs max.	DI	8 (16) +2
Digital outputs max.	DO	8 + 2
IO-Link / DI / DO status LEDs	20	
Ethernet connections	2x (10/100 BASE-Tx)	
Module / Ethernet status LEDs	7	
Ethernet sockets	RJ45	
Electrical connections	screw terminals	
Protection	IP 20	
Housing material	polyamide plastics	
Ambient temperature [°C]	0...70	
Installation	DIN rail	

Parallel sensor communication



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