



IO-Link

Mobile data memory for IO-Link: small in size, big in space



IO-Link devices



128 kBytes offer sufficient memory capacity for relevant data and histories

Process-relevant information is provided locally

Digital type label: simple registration of interchangeable components to the PLC

↻ The COM3 interface ensures fast data transmission




Local information exchange in the plant network

The external IO-Link memory DSU is a mobile all-purpose device for local data transmission. Connected to an IO-Link master, the small device makes the stored data available to all connected receivers. For example, if used as a digital type label for an interchangeable tool, the PLC can identify it independently and reliably, extract information about operating hours and alert the operator when maintenance is due to prevent damage to the tool or workpiece.

During operation, the data is continuously written to the history memory. Thanks to the COM3 interface with 230.4 kbit/s per second. A total of 128 kBytes offer enough space for all relevant data.



Type	Description	Memory size	Dimensions [mm]	Ambient temperature [°C]	Protection rating	Connection	Order no.
	IO-Link memory	128 kBytes	20 x 7 x 48	-20...60	IP 67 / IP 69K	1 m cable, PUR; 3 x 0.14 mm ² , M12 connector	DSU100

Configuration and reading of data via moneo|configure

The IO-Link memory can also be parameterised and read via the IoT software **moneo|configure**. In this way, recorded data of total operating hours, maintenance intervals or system-relevant maximum and minimum values such as pressure, temperature or vibration data, can be easily read. An optional write protection protects against accidental overwriting of sensitive device information.

Description of the technology

The DSU100 is a 128 kBytes FRAM data carrier which serves as a storage medium in industrial environments. Parameter setting and data exchange take place via the integrated IO-Link interface and can be carried out, for example, via the **moneo|configure** software while the system is not in operation.

Device-specific information


The IODD required for the configuration of the unit, detailed information about process data structure, diagnostic information, parameter addresses and the necessary information about the required IO-Link hardware and software can be found at www.ifm.com

Operating modes of the device




The device supports various operating modes, such as reading the device-specific globally unique UID, reading and writing up to 28 bytes of data in one IO-Link cycle and reading and writing larger amounts of data, with length restrictions usually only imposed by the PLC.

Automatic access to the memory stick during operation can be defined via numerous commands that regulate and control the read and write access.

Accessories

Type	Description	Order no.
	Mounting adapter for free-standing mounting	E12153

IO-Link master

	PROFINET, 4-port	AL1300
	EtherNet/IP, 4-port	AL1320
	PROFINET, 8-port	AL1302
	Modbus TCP 8-port	AL1342