

Quality management
For high customer satisfaction

Current certification guidelines define the quality of products and production today. These guidelines and the customer's expectations of our product quality characterise the entire workflow of nass magnet. The continuous improvements, constant qualification and motivation of our employees as well as modern testing systems are further components of our systematic quality management.

Quality guarantee

- quality management certified to IATF 16949:2016 and DIN EN ISO 9001:2015
- focus on ISO 45001
- best quality awareness by nass magnet production-system (NPS)
- efficient project management by VDA standards
- extensive qualifications as per ISO 16750, VDE 0580 or customer standards

Qualifications
Your strategic partner

In addition to the know-how acquired over many decades, *nass magnet* offers an all-round competence from a single source that can be called up at any time and meets the market with the fulfilment of the required or desired quality, environmental and safety requirements. The range of services extends from assembly, turning shop, plastic injection moulding, tool, mould, plant and prototype construction, through testing to product adaptation to the respective customer interface.

The group offers new and advance development of customer-specific products, including basic research, project and quotation preparation as well as continuous improvements and cost optimization.

The routine manufacture of tools, early quality planning (APQP) and over 90 years of experience in the design and construction of our equipment and production plants make nass magnet a reliable partner.



All-round-competence
From a **single** source

Flexibility

- flexible production and modular manufacturing concepts
- structured modular systems
- Individual products and complete solutions
- high variety
- transactions of orders for small to large batches
- simulation and expertise
- testing and prototyping
- product plant construction

Services

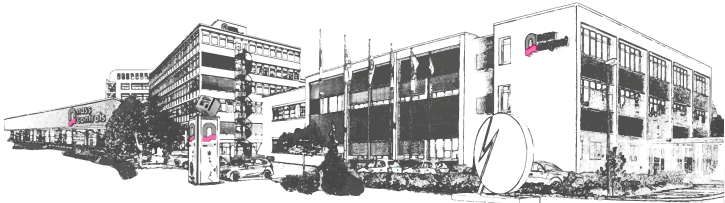
- all steps from planning to production readiness
- advice on the use of products
- excellent delivery performance and timelines

Special offer

Custom-made products and series production

Even the basic offer achieves a high level of quality due to the modular design. Structure offers a remarkable variety of variants. If your requirements once not by means of existing product portfolio, but to build on it, enables us to the group of companies offers customer-specific special solutions.

Your **contact** to us



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Internationally known for the development and production of electromagnetic pilot valves and valves for air, neutral gases, liquids and other media as well as electromagnetic actuators for valves in the field of mobile applications. Our products are used in the automotive industry, for medical and agricultural engineering, industrial pneumatics, supply and process technology as well as machine building.

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IO-Link Master Innovation
IIoT Ethernet Master
by nass magnet



**Modular
and compact
electromagnetic
components**

IO-Link Master Innovation

IloT Ethernet Master

The digitalisation and automation of industrial production is progressing. Making an innovative step, nass magnet, as an expert in modular and compact electromagnetic components, presents the new 4-port Ethernet IO-Link Master, focused on Industry 4.0 and IloT, implemented in a new designed housing.

Connected sensors and actuators can be remotely controlled and monitored via the network using the Ethernet TCP/IP interface.

Using IloT Master, data from sensors and actuators can be easily collected and transmitted to the IT/Cloud level, where the incoming information can be evaluated and stored.



Use
IO-Link
Universal · Smart · Easy

IloT Ready
Ethernet IO-Link Master

Intelligent Industry 4.0

With the rise of **Industry 4.0**, the demand for industrial IloT solutions is growing day by day. Easy and effective management of the massively increased Smart IO-Link devices has become a key challenge today.

The **Ethernet IO-Link Master** was designed especially for Industry 4.0 environment, with full capability to serve IloT systems and applications.

Thanks to the JSON interface which follows the new „JSON Integration for IO-Link” specification, managing of IO-Link sensors and actuators has never been easier. The device is fully compatible with any software application that supports JSON data format.

Over JSON data interchange format, the parameters and process data are simply accessible, all configuration and diagnostics can be done in a fast and flexible way.

Cost effective

With this new Ethernet Master, wiring costs can be dramatically reduced, compared to parallel cabling. The system becomes transparent, making it easier to run and maintain. Any extension or modification is much more simple than before. Due to the standard M12 connectors no special skills are required for cable work.

User friendly Easy installation

The integrated web GUI offers a convenient interface for:

- IO-Link gateway / Network configuration
- IO-Link Port configuration
- IO-Link Device configuration
- IODD-less ISDU (Indexed Service Data Unit) parameterization
- Basic security settings
- SNTP (Simple Network Time Protocol) time synchronization

Quick & Simple Easy parameter setting

Setting up new field devices is always a challenging task. With the IloT Ethernet Master all settings can be done remotely - eliminating the manual procedure.

Clever Data storage

All configured parameters of the connected devices can be stored in the unit. When replacing any of them the stored parameters are downloaded automatically.

It will **save time and cost** in case of maintenance, and significantly reduce the number of possible faults.

Plug’n’Play Advantages / Benefits

- State-of-the-Art Web GUI interface
- Direct device access over Ethernet without industrial Fieldbus and PLC
- Easy Node-RED integration
- Harmonised with the latest IO-Link standards
- Cost effective design

State-of-the-art technology Features

- IO-Link V1.1.3 compatible Master
- Ethernet/TCP-IP interface,
- DHCP (Dynamic Host Configuration Protocol) or static IP address configuration
- Standardized JSON mapping
- Node-RED integration supported
- 4 independent powered IO-Link Class A ports
- IP67 Protection
- MQTT supported

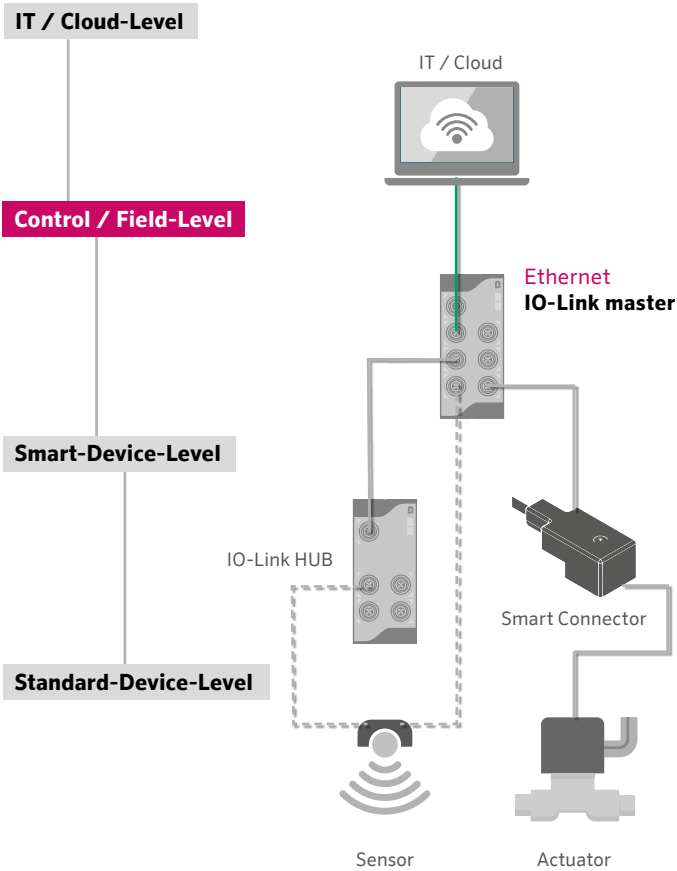
IO-Link V 1.1.3. fully backward IO-Link compatibility

EtherNet/TCP-IP interface, which is globally accepted and highly supported, making it easy to integrate with existing systems or to build a new system.

Close to customers Special offers

- Direct manufacturer support
- Customized OEM enclosure possible
- Up-to-date software/firmware support
- Extendable with on-board MCU (Microcontroller Unit)
- In combination with the **Smart Valve Connector** by nass magnet, it is the perfect solution **for valve monitoring**

Automation levels Structure



Overview Technical data

Operating voltage.....	24 VDC (18..30 VDC)
Interface.....	Ethernet
Protocol.....	HTTP, TCP/IP, JSON, MQTT
Number of ports	4 x M12 - IO-Link
Max. Input / Output	Programmable 8 / 4
IO-Link Master Port Type.....	Class A / COM 1, COM 2, COM 3
Output power	500 mA / port
Output power - Total max.	2A
IP Rating	IP 65/67
Housing material	PA6 GF20 FR
Ambient temperature.....	- 20 .. + 60 °C

