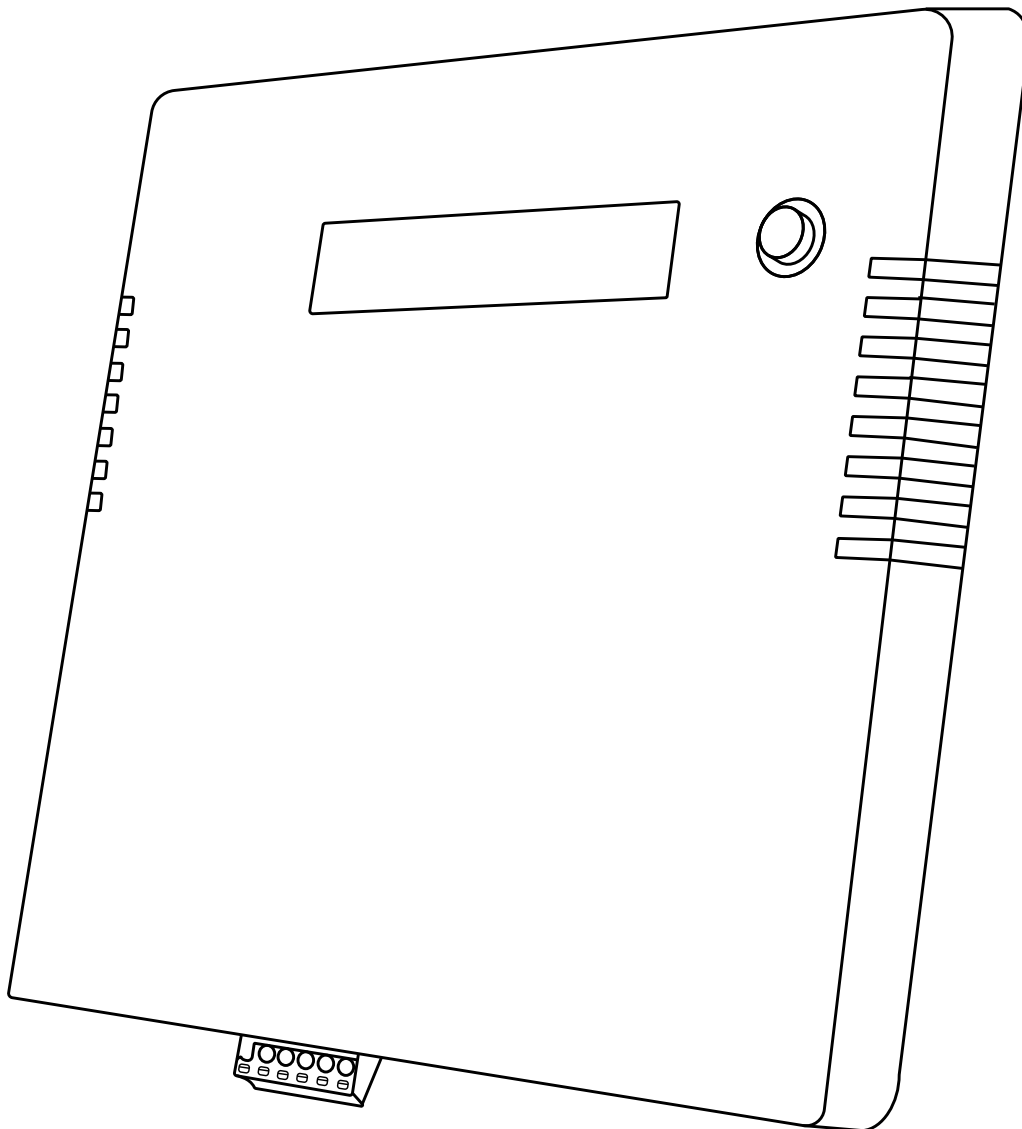
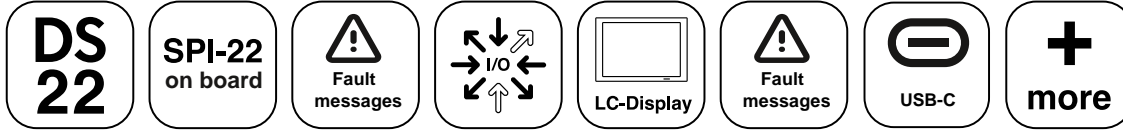


# DS-22

## IO fault indication module IP



# Proven Neumann Elektronik quality

- Full compatibility with DS-22 system / SPI-22 platform
- Remotely configurable and remotely monitorable
- Configuration via WEB interface
- One Ethernet interface
- Fault management via IoT MQTT interface
- Additional display of status messages and fault messages in the two-line illuminated display
- Standard PoE power supply
- Optional mains node supply or local supply DC 5V available
- 4 outputs for fault message forwarding
- MODBUS interface for coupling expansion modules
- 16 additional inputs each through optional extension modules
- 8 additional outputs each through optional extension modules

The DS-22 IP fault indication module is used in the DS-22 decentralised communication system.

It enables the collection, display and management of fault messages.

The DS-22 IP fault indication module is intended for indoor use, primarily in network nodes. It is mounted on TS35 mounting rail. Due to its versatility and large optional expandability through input and output ports, it is used in many areas of heavy industry and railway technology.

The optional expansion is carried out by means of the RS485 interface in the unit.

RTU modbus-capable components can be adapted to it.

DS-22-independent IP components can also be monitored via the ICMP interface in the unit.

At the same time, the DS-22 IP fault indication module offers both the local display of faults of all terminal devices present in the DS-22 system via the built-in illuminated two-line display, as well as a forwarding of the fault messages via relay contacts. The integrated MQTT interface enables forwarding to an existing MQTT broker in the DS-22 system or to any other MQTT broker. In addition, the fault messages can be displayed in a management system connected to the DS-22 system.

In addition to its actual task as a master in the DS-22 fault management system, the DS-22 IP fault indication module is also able to perform monitoring functions via the inputs and control functions via the outputs thanks to the MQTT interface integrated in the device.

For connecting an optional monitor, the DS-22 IP fault indication module has two HDMI connections. For the connection of optional USB devices, 4 USB-A ports are available.

By default, the DS-22 IP fault indication module is powered via Power over Ethernet. Furthermore, the device can also be powered via USB-C. If no PoE supply or USB-C supply is available in the network node, an optional PoE injector can be used or an optional DC 5V local supply. For this purpose, the manufacturer supplies a PoE injector or a mounting rail power supply unit for local power supply as accessories.

Technical data	
Art. no.	649 0145 013 3
Mechanical data	
Weight	Approx. 0.5kg
Housing dimensions (HxWxD)	140mm x 150mm x 70mm (without connector)
Housing colour	Black
Material	Polystyrene
Electrical data	
Nominal power consumption (without expansion stages)	Approx. 3.5W
Maximum power consumption (including all expansion stages)	Approx. 7W
Connectivity	
PoE (without expansion stages)	PoE power supply Class 0 according to IEEE 802.3af
USB-C power supply	USC-C supply
Power supply DC 5V	Optional power supply via mains power supply unit DC 5V / 30W
Ethernet interfaces	1 (IEEE 802.3u)
Transmission protocol	Neumann DS-22 IP
Environmental conditions	
Temperature range	0°C to +50°C
Protection class according to DIN 60529, resp. IEC 60529	IP20

Accessories	
949 1412 172 0	Carrier rail power supply AC 230V / DC 48V 60W for mains node supply
919 1116 097 4	PoE injector according to IEEE802.3at (30W) for rail mounting in the mains node (Attention! Power supply unit 949 1412 172 0 required for power supply)
949 1412 190 0	Carrier rail power supply DC 5V 25W
919 1116 241 5	Extension module with 16 inputs and 8 outputs (Attention! Power supply unit 949 1412 190 0 required for power supply)
919 1250 012 0	Replacement battery

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## Neumann Elektronik system overview



<https://neumann-elektronik.com/system-overview>



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