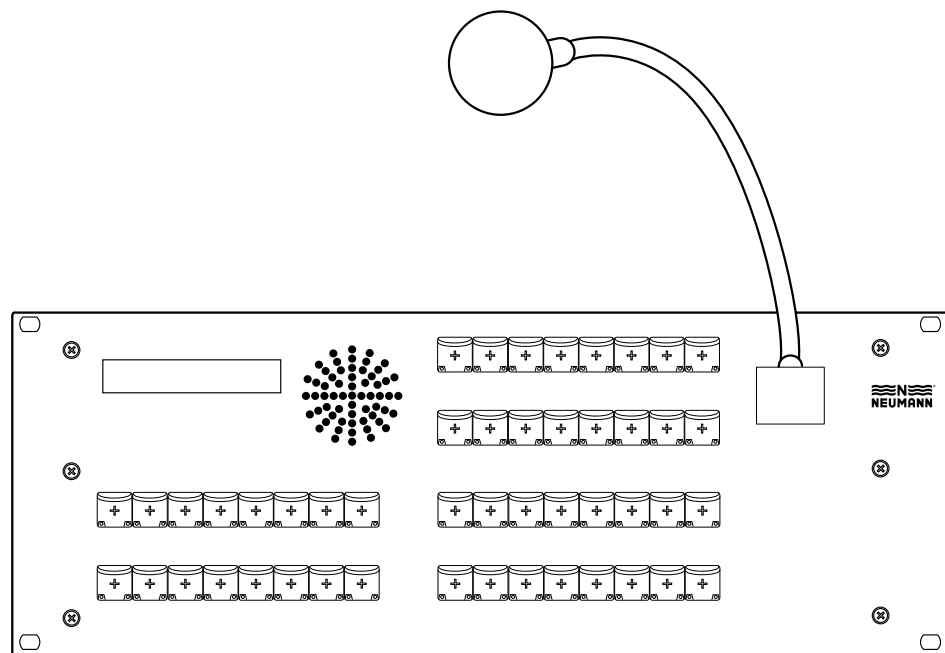
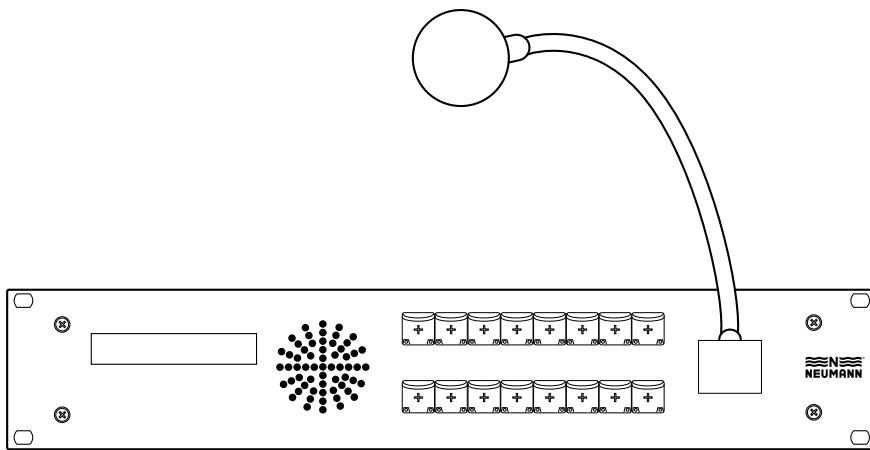


DS-22 MRS IP

Multifunctional rack-mount call station 19 inch



Proven Neumann Elektronik quality

- Full compatibility with DS-22 system / SPI-22 platform
- Remotely configurable and remotely monitorable
- Configuration via WEB interface
- Dual use - Native SIP protocol / terminal or WL/EL Neumann protocol selectable
- Half / full duplex compatibility
- Software PLC
- Direct voice connections via key-controlled line selection
- High speech intelligibility (up to 22kHz bandwidth - depending on codec selection)
- Low and high volume control (12dB level reduction)
- Integrated voice memory
- Free key assignment as WL target keys or for local functions
- Integrated Class-D 7W amplifier for horn loudspeakers for best speech intelligibility with wide frequency range
- Integrated Class-D 7W amplifier for on/off mode or monitoring loudspeaker in standard technology with 8Ω loudspeakers
- One Ethernet interface and one service interface
- Line keys can be freely assigned with destinations
- Indication of status messages, such as call and busy signalling, by means of LEDs

- **Cyclical acoustic self-test for loudspeaker and microphone monitoring**
- **Fault management via IoT MQTT interface**
- **Adjustable and monitored electret microphone with electronic noise compensation and dynamic compression**
- **Shock- and break-proof aluminium housing**
- **Dynamic 8Ω built-in loudspeaker**
- **Flexible gooseneck electret microphone 300mm in length**
- **With 16 buttons and 2U construction, or with 48 buttons and 4U construction**
- **Optional expandability with listening/talking set, foot switch or microphone**
- **Optional connection for monitoring or announcement loudspeaker**
- **Additional indication of status messages and fault messages in the two-line illuminated display**
- **Adjustment of loudspeaker volume via configured keys with key functions louder and softer**
- **Optional potential-free relay contact for connecting a flashing light for visual signalling or a signal horn for acoustic signalling**

- **PoE phantom or PoE spare pairs power supply**
- **Optional mains node supply or local supply DC 48V available**
- **DR-Intercom and crossing barrier station as integrated special functions for railway applications**
- **Rack mounting**

The DS-22 MRS IP Multifunctional rack-mount call station 19 inch is used in the DS-22 decentralised communication system. It enables direct voice connections with other call stations, loudspeaker announcements and telephone operation.

The DS-22 MRS IP Multifunctional rack-mount call station 19 inch is designed for indoor use. Due to its versatility and great expandability, it finds its application in many areas of heavy industry and railway engineering by programming many special functions.

Due to the 19“ mounting in racks or cabinets, the DS-22 MRS IP Multifunctional rack-mount call station 19 inch is excellently suited for use in equipment rooms, network nodes, control centres or also signal boxes.

At the same time, the DS-22 MRS IP Multifunctional rack-mount call station 19 inch also offers programmable local functions.

In addition to the destination keys for WL/EL, the DS-22 MRS IP Multifunctional rack-mount call station 19 inch has a monitoring of the gooseneck electret microphone with electronic noise compensation and dynamic compression, a volume control, an integrated voice memory for the playback of customised announcement texts, tone sequences or audio files, which can be played back at the touch of a button, as well as a built-in display for status and fault indications and display options of these in plain text.

The DS-22 MRS IP Multifunctional rack-mount call station 19 inch has, depending on the variant, 16 or 48 line keys.

By default, the DS-22 MRS IP Multifunctional rack-mount call station 19 inch is powered via Power over Ethernet. Optionally, however, a DC 48V mains node supply or local supply is also possible. For this purpose, the manufacturer supplies various DIN rail power supply units for mounting in the network node, as well as plug-in and desktop power supply units for local power supply.

Technical data		
Art. no.	1 268 7	1 269 8
Mechanical data		
Weight	Approx. 5.3kg	Approx. 2.0kg
Housing dimensions (HxWxD)	Width 19", height 4U Installation depth 220mm (without connector and terminals)	Width 19", height 2U installation depth 220mm (without connector and terminals)
Housing colour	Front panel aluminium grey	
Material	Aluminium	
Number of talk keys	48	16
Electrical data		
Nominal power consumption (without expansion stages)	20W	
Frequency range	100Hz to 22kHz (depending on the set codec)	
Connectivity		
PoE	PoE phantom call station power supply via the Ethernet interface, two-pair with PoE Class 4 according to IEEE 802at or higher	
Mains node supply	For locations without PoE power supply to the call station, optional DC 48V mains node power supply via 60W channel power supply unit	
Local feeding	For locations without PoE call station power supply, optional local power supply DC 48V via 60W plug-in or desktop power supply unit	
Mains supply		
Ethernet interfaces	1 (IEEE 802.3u)	
Service interfaces	1	
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	
229 8001 175 5	Plug-in power supply AC 230V / DC 48V 60W for the european market
229 8101 175 6	Table power supply AC 230V / DC 48V 60W for international applications, equipped with an IEC320-C14 plug, for adaptation of country-specific connection cables
999 1980 002 7	Connection cable for table power supply. IEC320 connection cable with socket C14 for the european market
949 1412 172 0	Carrier rail power supply AC 230V / DC 48V 60W for mains node supply
229 8601 666 6	External power supply module in weatherproof housing AC 230V / DC 48V 60W for local power supply of DS-22 units
919 1116 097 4	PoE Injector according to IEEE802.3at (30W) for mounting rail installation in the mains node(Attention! Power supply unit 949 1412 172 0 required for power supply)
919 1116 724 1	24-port switch Class 4 with 600W and 4 additional SFP portsfor fibre-optic modules for 19" mounting in the network node For this purpose: 919 1116 726 3 licences per unit 919 1116 725 2 SFP module fibre-optic multimode
229 0601 850 3	Keys cover with fixing screws (5 pieces)
229 0701 850 4	Mounting kit for key cover, including drilling template, drill and mounting instructions
213 1831 155 0	Key cap, ABS plastic, colour: sky blue (RAL 5015)
213 1831 156 1	Key cap, ABS plastic, colour: rape yellow (RAL 1021)
213 1831 157 2	Key cap, ABS plastic, colour: fire red (RAL 3000)
213 1831 158 3	Key cap, ABS plastic, colour: yellow-green (RAL 6018)
213 1831 159 4	Key cap, ABS plastic, colour: turquoise blue (RAL 5018)
213 1831 160 6	Key cap, ABS plastic, colour: signal black (RAL 9004)
212 1831 121 2	Plexi cover for key cap, PC plastic, colour: crystal clear
214 1516 014 5	Labelling sheet DIN A4 for MTSD
223 7001 175 8	Retrofit kit for additional devices headset, microphone and foot switch with 8-pin M12 round connector, consisting of exchangeable back panel, printed circuit board assemblies with connection cable
223 7101 175 9	Retrofit kit for auxiliary devices monitoring loudspeaker, relay contact with auxiliary component supply DC 24V/15W with 8-pole M12 round plug connector, consisting of exchangeable back panel and connection cable
641 0116 033 5	Active monitoring loudspeaker with integrated 25W amplifier for wall, table or ceiling mounting.
641 0116 034 6	Monitoring loudspeaker 7W for wall, table or ceiling mounting
629 1116 033 2	Swivel/tilt bracket with fixing material for wall or ceiling mounting of monitoring loudspeakers
223 7201 175 0	Headset with PTT button integrated in the line and 8-pin M12 circular connector
223 7301 175 1	External handheld microphone with PTT button and 8-pin M12 circular connector
223 7401 175 2	External foot switch with 8-pin M12 round connector
919 1250 011 9	Replacement battery

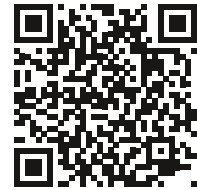
Neumann Elektronik GmbH owns a registered trademark (brand). Other products and company names mentioned are trademarks or registered trademarks of their respective owners.

Misprints, errors, technical or other changes as well as changes in the availability of individual products are expressly reserved. © Neumann Elektronik GmbH, 2023

Neumann Elektronik system overview



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



Neumann Elektronik GmbH

Lahnstrasse 31-33
45478 Mülheim an der Ruhr
Germany

info@neumann-elektronik.com
www.neumann-elektronik.com

Tel: +49 208 40 944 0
Fax: +49 208 40 944 260

