DS-22 TTSD IP
Gate and door call station
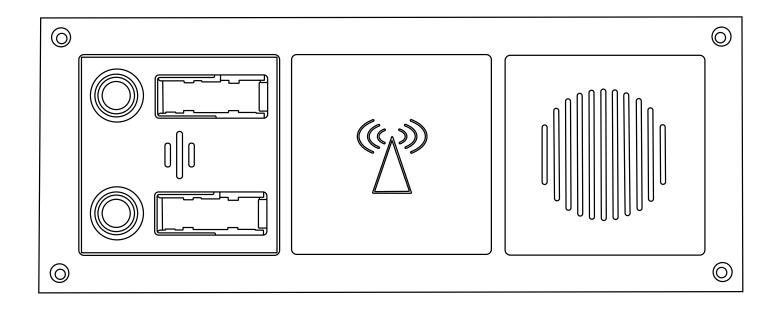
DS 22

SPI-22 on board

Dual use
Native SIP or WL/EL
Neumann protocol

Web interface

half / full duplex

LED status notifications

Customisable

PoE

+ more

MQTT

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 (22kHz bandwidth)**

- **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 best speech intelligibility with wide frequency range**

- **One Ethernet interface and one service interface**

- **Line keys can be freely assigned with destinations**

- **Status messages, such as call and busy signals, are indicated by 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**

- **Front panel aluminium or V2A design as surface-mounted or flush-mounted variant**

- **Integrated built-in loudspeaker**

- **Integrated electret microphone**

- **Up to eight buttons**

- **Optional potential-free relay contact for connection of a flashing light for visual signalling or a signal horn for acoustic signalling**

- **PoE phantom or PoE spare pairs power supply**

- **Optional mains node power supply available**

- **DR-Intercom and crossing barrier station as integrated special functions for railway applications**

The DS-22 TTSD IP gate and door call station 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 TTSD IP gate and door call station panel mounted call station is intended for use in outdoor areas. Due to its modular design, as well as the arrangement in built-in housings with 3 or 4 integrable modules, it finds its application in many areas of industry and security technology through the programming of many special functions.

The DS-22 TTSD IP gate and door call station is broken down into individual modular assemblies. These include pure pushbutton plates, built-in loudspeakers, built-in microphones combined with pushbuttons, which are mounted in a mounting frame, as well as the integrated electronics in surface-mounted or flush-mounted housings. The flush-mounted housings fit into corresponding building openings provided for this purpose.

At the same time, the DS-22 TTSD IP gate and door call station also offers programmable local functions. In addition to the destination buttons for WL/EL, the DS-22 TTSD IP gate and door call station has monitoring of the electret microphone with electronic noise compensation and dynamic compression, volume control, an integrated voice memory for playing back customised announcement texts, tone sequences or audio files, which can be played back at the touch of a button.

The DS-22 TTSD IP gate and door call station has up to 8 line keys, depending on the modules used.

As standard, the DS-22 TTSD IP gate and door call station is powered via Power over Ethernet. Optionally, however, a DC 48V mains node power supply is also possible. For this purpose, the manufacturer supplies various mounting rail power supply units for installation in the network node.

Mechanical data		
Weight	Approx. 1.8kg (depending on component)	
Housing dimensions (HxWxD)	**Surface-mounted housing dimensions:**	**Flush-mounted housing dimensions:**
	3 Module units 316,5mm x 157mm x 96mm	3 Module units 272mm x 105mm x 87mm
	4 Module units 406,5mm x 157mm x 96mm	4 Module units 360mm x 105mm x 87mm
	Front panel dimensions: 3 Module units 300mm x 120mm x 74mm 4 Module units 390mm x 120mm x 74mm	
Housing colour	Front panel aluminium or V2A design	
Material	Aluminium	
Number of talk keys	Depending on variant: 1-2-3-4-5-6-7-8 Keys	
Electrical data		
Nominal power consumption	20W	
Frequency range	100Hz to 22kHz (depending on the set codec)	
Connectivity		
PoE (without expansion stages)	PoE phantom call station power supply via the Ethernet interface two-pair with PoE Class 4 according to IEEE 802.3at during operation with a maximum of 2 Add-on housings	
PoE (including all expansion stages)	PoE spare pairs call station power supply via the Ethernet interface four-pair with PoE Class 8 according to IEEE 802.3bt for operation with more than 2 Add-on housing to full extension	
Mains node supply	For locations without PoE call station power supply, optional DC 48V mains node power supply via 60W trunking power supply unit	
Mains supply		
Ethernet interfaces	1 (IEEE 802.3u)	
Service interfaces	1	
Transmission protocol	Neumann DS-22 IP	
Environmental conditions		
Temperature range	-20°C to +55°C	
Protection class according to DIN 60529, resp. IEC 60529	IP54	

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Modular components Gate and door call stations DS-22 TTSD IP version, aluminium	
649 0104 360 3	Electronics base module DS-22 TTSD IP
On request	Flush-mounted housing for PCB mounting with 2 module units
On request	Flush-mounted housing for PCB mounting for 3 module units
On request	Flush-mounted housing for PCB mounting for 4 module units
On request	Surface-mounted aluminium housing for 2 module units
989 3106 402 2	Surface-mounted aluminium housing for 3 module units
989 3106 404 4	Surface-mounted aluminium housing for 4 module units
On request	Aluminium frame for 2 module units horizontal built-in
On request	Aluminium frame for 2 module units vertical built-in
989 3106 409 9	Aluminium frame for 3 module units horizontal built-in
989 3106 410 1	Aluminium frame for 3 module units vertical built-in
On request	Aluminium frame for 4 module units horizontal built-in
989 3106 412 3	Aluminium frame for 4 module units vertical built-in
989 3106 420 2	Aluminium loudspeaker module
989 3106 440 4	Aluminium microphone module
989 3106 450 5	Aluminium combination module microphone and two push buttons
On request	Aluminium module with three push buttons
989 3106 451 6	Aluminium module with two push buttons
989 3106 453 8	Aluminium module with one push buttons
989 3106 491 0	Aluminium blind cover for an unused module
On request	Aluminium labelling field
989 3106 470 7	Plexiglass cover card reader

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Modular components Gate and door call stations IP version, V2A design	
649 0104 360 3	**Electronics base module DS-22 TTSD IP**
On request	**Flush-mounted housing for PCB mounting with 2 module units**
612 3104 038 8	**Flush-mounted housing for PCB mounting for 3 module units**
On request	**Flush-mounted housing for PCB mounting for 4 module units**
On request	**Surface-mounted housing for 2 module units in V2A design**
989 3106 403 3	**Surface-mounted housing for 3 module units in V2A design**
On request	**Surface-mounted housing for 4 module units in V2A design**
On request	**Front panel frame for 2 module units in V2A design horizontal built-in**
On request	**Front panel frame for 2 module units in V2A design vertical built-in**
On request	**Front panel frame for 3 module units in V2A design horizontal built-in**
989 3106 411 2	**Front panel frame for 3 module units in V2A design vertical built-in**
On request	**Front panel frame for 4 module units in V2A design horizontal built-in**
On request	**Front panel frame for 4 module units in V2A design vertical built-in**
989 3106 421 3	**Loudspeaker module in V2A design**
989 3106 441 5	**Microphone module in V2A design**
989 3106 455 0	**Combination module microphone and two push buttons in V2A design**
989 3106 452 7	**Module with three push buttons in V2A design**
On request	**Module with two push buttons in V2A design**
989 3106 454 9	**Module with one push button in V2A design**
On request	**Blind cover for an unused module space in V2A design**
989 3106 490 9	**Labelling field in V2A design**
989 3106 470 7	**Plexiglass cover card reader**

Accessories	
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 rail mounting 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 ports for fibre-optic modules for 19" mounting in the network node** **For this: 919 1116 726 3 licences per unit 919 1116 725 2 SFP module fibre-optic multimode**
919 1250 011 9	**Replacement battery**

Neumann Elektronik system overview

TIMM   **TIMM** SMART   **DS 6**   **PACE** EN 54 - 16   **DS 22**   **+** more

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