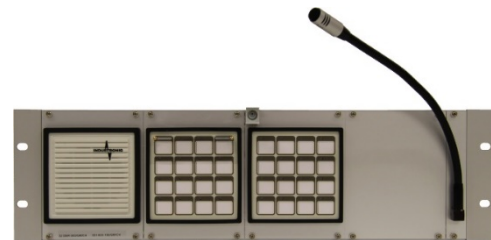# NSR 001/GM

IP SERVICE INTERCOM STATION

FOR RACK INSTALLATION

Due to the standardized front panel, the IP service intercom station is designed for use in system cabinets and control desks.

Its connectivity and health status is constantly monitored, logged and flexibly notified system-internally and to third-party systems.

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- ■ All switching elements with corresponding labeling field

- ■ Visual indication of call or busy status via LED

- ■ For installation into system cabinets and control desks

- ■ Front panel 19", 3 RU with 32 membrane keys

- ■ Adjustable speaker volume and microphone sensitivity

- ■ Self-diagnostics by monitoring of internal electronics, microphone and network connectivity

COMPONENTS

Gooseneck microphone

Speaker module

Keypad 16 NIFK with 16 membrane keys installed in the instrument housing
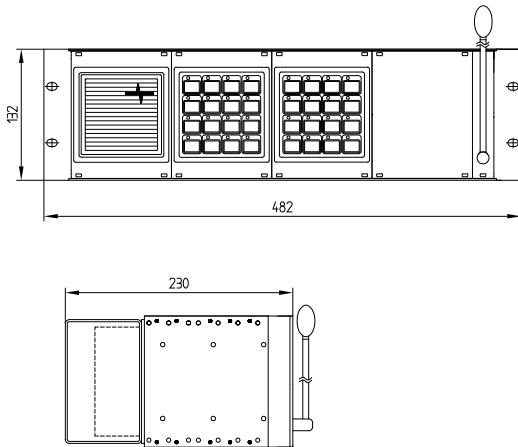
Electronics unit

OPTION

Key cover to protect the membrane keys against accidental actuation

MECHANICAL DATA

Width x height x depth	482 mm x 3 RU x 230 mm (19" x 3 RU x 9.06")
Weight	Approx. 3.5 kg (approx. 7.72 lbs)

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Subject to technical modifications - Doc. no. DAT-302-059-200-GM • V04 • EN • 30.08.2021

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DIMENSIONS

ELECTRICAL DATA

Power supply	PoE according to IEEE 802.3af, Class 3, 15 W or external power supply (42 V DC to 57 V DC, 0.3 A at 48 V DC)
Quiescent current consumption	60 mA
Max. current consumption	270 mA
Frequency range	200 Hz to 16,000 Hz (+/-3 dB)
Amplifier power	0.75 W
Speaker	5 W / 8 Ohms
Potential-free inputs	3
Input voltage level of each input	Off: 0 V DC to 5 V DC On: 10 V DC to 72 V DC (current consumption max. 4 mA)
Potential-free outputs	3
Max. voltage and current value for each output	72 V DC, 100 mA
Auxiliary voltage output	48 V DC, 50 mA (operating voltage potential)

NETWORK REQUIREMENTS

Power over Ethernet (PoE) recommended

IPv4 network

Support of UDP, SCTP, RTP and RTCP protocols

Quality of Service (QoS)
    Ideal latency < 20 ms (max. 50 ms)
    Jitter max. 10 ms

10Base-T/100Base-TX Ethernet (IEEE 802.3), 100 MBit/s recommended

200 kBit/s basic bandwidth and 200 kBit/s per active audio channel

ENVIRONMENTAL REQUIREMENTS AND STANDARDS

Ambient temperature during operation	0 °C to +50 °C (+32 °F to +122 °F)
Relative humidity (non-condensing)	Max. 95 %
Degree of protection	IP40 (front side)
EMC	IEC/EN 61000-6-2 IEC/EN 61000-6-4

ORDER DATA

Height	Number of Keys	Key Cover	Type	Type Number
3 RU	32	-	32 NSR 001/GM	302-059-200/GM
		x	32 NSR 001/GM/C8*	302-059-200/GM/C8

*C8 = Key cover for 8 membrane keys

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