MESA 26

CRC26-N

The CRC26-N is a terminal unit for the purpose of dual mode train radio, shunting radio and data applications which operates in the GSM-R network. It fulfils the European requirements for use in rail vehicles.

The MESA 26 NSR system has a compact design and fixed equipment. It is designed as a replaceable plug-in. It consists of the digital transmission and receiving unit, the controls, the internal power supply and an specified system connector. Special system connector is located on the rear side, which the device is connected to the vehicle infrastructure. Software, configuration and diagnostic data can be read and/or updated of the CRC26-N via the Ethernet interface.

The terminal unit operates in accordance with GSM 05.05 Phase 2+ and in the extended GSM / GSM-R -frequency range in the following frequencies:

- Transmitting frequency range: 873 to 915 MHz
- Receiving frequency range: 918 to 960 MHz.

Highlights:

- Cab Radio Compact with MMI, Power supply and loudspeaker
- Designed as a replaceable plug-in unit
- Radio module with filter against blocking and interferences
- Standardised interfaceses and modules
- Quick and efficient repair
- Lower training requirement for maintenance personnel

Technical Data

Power Supply			Dimensions+ Weight	
Nominal voltage	24 / 72 / 110 V		Construction	compact closed housing
Input nominal voltage	16.8 to 154 V_{DC}		Width	300 mm
Interruption of voltage supply	S1 (no interruption) according to EN 50155		Height	140 mm
max. power consumption	50 W		Depth	218 mm
typ. Power consumption	35 W		Weight	max 6 kg

Environmental Conditions	
Degree of protection	Front side IP54 / housing IP20 acc. to EN 60529
Vibrations and shocks	according to 50155 and EN 60068-2-6
EMC	according to EN 50121-3-2 and EN 50155

Climatic Conditions	
Operating temperature	-25 °C to +70 °C
Storage temperature	-40 °C to +85 °C (in original package)
Max. gradient	±1 °C/min ambient temperature
Relative humidity	according to EN 50155
Altitude and pressure fluctuation	- 100 m to 1.800 m above sea level

Interfaces	
ARINC	Power supply, antenna, handset, drivers key, RS422, DSD, PE conductor
ETH (round female connector)	Service / Ethernet

Operating Unit	
Type	transmissive TFT color LCD
Nominal size	7"
Effective visible range of display	154 x 93 mm
Resolution	800 x RGB (W) x 480 (H) dots

Further	
Fire and smoke protection	hazard level 2 according to DIN EN 45545:2013
Technology standard	IEEE 802.3 for 100BaseT

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