Cab Radio

CR26P-1800

The CR26P-1800 is a terminal unit for the purpose of train radio, shunting radio and data applications which operates in the GSM-R network specifically for Australia.

It fulfils the European and Australian requirements for use in rail vehicles.

The terminal unit operates in a GSM-R -frequency range of 1800 MHz with 4 W power output or 1 W for data communication.

MESA 26 AUSTRALIA

The CR26-1800 is the main component of a digital train radio systems. It consists of the digital transmission and receiving device, the controls, the interface modules for the external devices and the internal power supply. The CON26 module controls the radio link, regulates the priority of the calls, controls the operating devices, the additional data applications and the interface modules.

The CR26-1800 realises train to ground communication for the train driver in joint operation with the HMIC, hand-set and cabin loudspeaker. It contains two radio modules, one for the GSM-R voice communication, and the other can be used for the EDGE data transmission.

CR26P-1800

This is based on the MESA26 series. By integrating new developments and adapting them to Australian train technology, a technically mature, innovative and reliable train radio system was made available for this market.

Funkwerk Systems GmbH - A company of Funkwerk AG

Im Funkwerk 5 | 99625 Kölleda | T. +49 (0) 3635 458-0 | M. info@funkwerk.com | www.funkwerk.com

TECHNICAL DATA

DIMENSIONS / WEIGHT

Construction	closed housing
Width	481.68 mm
Height	132.55 mm
Depth	239.5 mm
Weight	max. 10 kg

ELEKTRICAL DATA

Input voltage	120 VDC
Maximum input power	120 W (with IRU 150 W)
Maximal power consumption	1 A (with IRU 1.25 A)
Protection class	IP54 according to DIN EN 60529
Vibration and shocks	according to EIRENE SRS/FRS and FE 116

RF-PROPERTIES EDGE

Power transmission	1 W (DCS Class 1)
Operating frequency	DCS1800: 1710 to 1785 MHz / 1805 to 1880 MHz ARFCN: 515 to 885 MHz
Sensibility level	-102 dBm
Data transmission	MCS-1.

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TECHNICAL DATA

RF-PROPERTIES EDGE

Power transmission	4 W (DCS Class 3)
Operating frequency	DCS1800: 1710 to 1785 MHz / 1805 to 1880 MHz ARFCN: 515 to 885 MHz
Sensibility level	-102 dBm
Data transmission	CS-1

CLIMATIC CONDITIONS

Operating temperature range	-25 °C to +70 °C	
Storage temperature range	-40 °C to +70 °C (in original package)	
Maximal gradient	± 1 °C/min of ambient temperature	
Relative humidity	according to FE 116-97: according to EN 50155:	100 % 95 % on max. 30 days per year 75% in annual average
Altitude and pressure fluctuation	-100 m to 1800 m above sea level	

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