

Operating Device

MMIT



The operating device MMIT as part of the train radio system MESA 26 is designed for the menu-driven operation of digital and analogue train radio. It fulfils the requirements for the operation on rail-vehicles and it is designed for the console installation in the driver's cabin. With the use of handset and a loudspeaker the driving crew is able to carry out diverse communication tasks.

OPERATING CONCEPT

Funkwerk's operation devices are developed in accordance with the specification as well as to European standards. They are characterised by its innovative and intuitive ease of use. Except for permanently reachable key functions our MMIs are mainly controlled by softkeys to facilitate its use and to provide the flexibility for functional adaptations without needed hardware modifications.

The MMIT has a display with touch function and a key-board with 6 keys with dedicated function. The touch display shows a keyboard with 14 soft keys and 4 additional keys with dedicated functions.

The display is covered with anti-reflection coated protective glass. The only key with key-inhibit function is the emergency call key.

The following functions are realised by the hard keys:

- » Emergency call
- » Call to secondary controller
- » Call to conductor
- » Passenger announcement
- » Train to train call
- » Reset button



TECHNICAL DATA

DIMENSIONS / WEIGHT						
Construction	closed housing					
ВхНхТ	(296 x 138 x 39) mm 1.4 kg					
Weight						
DISPLAY						
Design	transmissives TFT-Farb-LCD mit Touch-Funktion					
Effective visible surface	(154 x 86) mm					
Resolution	(1024 x 600) Pixel					
Reading angle at 25 °C	vertikal: ±80°, horizontal: ±80° (bei CR ⊅ 10)					
ENVIRONMENTAL CONDITIONS						
Protection class	front: IP54 according to DIN EN 60529 rear side: IP20 according to DIN EN 60529					
Vibration and shocks	according to DIN EN 50155					
EMC	according to DIN EN 50121-3-2 and DIN EN 5015					
CLIMATIC CONDITIONS						
CLIMATIC CONDITIONS						
Operating temperature range	OT3: -25 to +70 °C					
	OT3: -25 to +70 °C ST1: OT3 +15 °C (at switch-on for max. 10 min)					
Operating temperature range						
Operating temperature range extended temperature range	ST1: OT3 +15 °C (at switch-on for max. 10 min)					
Operating temperature range extended temperature range Storage temperature range	ST1: OT3 +15 °C (at switch-on for max. 10 min) -40 °C to +70 °C (in original package)					

Altitude and pressure fluctuation -100 m to 1800 m above sea level



TECHNICAL DATA

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X1: Central unit CR26 CR26P CR26S	25-pin D-Sub male
X6: RS422 (Data application/IFS)	15-pin D-Sub female
X7: Ethernet	4-pin M12 female (coding D)
X8: X2: handset, loudspeaker, digital I/O	25-pin D-Sub female
Miscellaneous	Protective earth

POWER SUPPLY

Nominal input voltage 24 ... 110 VDC (On-board power supply)

