Operational Handheld (OPH/OPS)

HANDHELD focX®2

The handheld focX 2 is the latest member of our focX® product portfolio. It is a GSM-R terminal for professional mobile communication applications.

It meets the European requirements for the use of handheld radios. It is the first handheld radio available worldwide with integrated filters to meet the interference immunity requirements of TS 102-933, v2.1.1. This ensures seamless communication in the GSM-R range.

CHARACTERISTICS

The handheld is equipped with a GSM-R radio module, which ensures communication in the railway radio network. In addition, interfaces for public networks (2G/3G/4G), WLAN and Bluetooth are provided and can be used in future applications.

The handheld is operated with a transmission power of 2 W in GSM-R mode. The user-friendly menu navigation supports secure communication.

The handheld fulfils the requirements of the EIRENE standards FRS 8.1 and SRS 16.1.

HIGHLIGHTS

» Android platform

» Android security update support: Q2/2026

» intuitive touchscreen user interface

» physical keypad / hard keys

» separate emergency call and PTT button

» exchangeable battery

» PTT function

» extremely robust design

» meets railway specific requirements according to ETSI TS 102 933 V2.1.1

» excellent protection against HF interference signals

» wireless charging up to 5W

TECHNICAL DATA

DIMENSIONS + WEIGHT

Height	147.5 mm
Width	72.2 mm
Depth	35 mm
Weight	ca. 342 g

RADIO CHARACTERISTIC

Frequency bands	2G/GSM/GSM-R	ER-GSM/GSM 900/E-GSM 900/DCS 1800
	3G/WCDM*	B1/B2/B5/B8
	4G/LTE*	B1/B3/B5/B7/B8/B20/B28/B34/B38/B39/B40/B41/B42
Transmitting power	2 W ± 2 dB (GSM/GSM-R), 1 W ± 2 dB (DCS 1800), 250 mW (3G/WCDM), 200 mW (4G/LTE)	

ENVIRONMENTAL CHARACTERISTICS

Operating temperature	-25 °C to +55°C
Storage temperature	-40 °C to + 70° C
Protection class	IP68 (dust-tight, permanently waterproof up to 1.50 m depth up to max. 30 min.)
Chemical resistance	against influences from brake fluid, engine and gearbox oil

TECHNICAL DATA

Display	3.55" colour display, 320 x 480 pixels (HVGA)
Audio	1 microphones, 2 loudspeakers
Battery	5.500 mAh Lithium-ion battery (changeable)

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TECHNICAL DATA

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Operating system	Android 12.0
RAM	3 GB
ROM	24 GB
Processor	CPU 4-Core
Chipset(2/3/4G)	Mediatek Helio A22 MT6761

EXTRAS

automatic band recognition

GSM ASCI application (phase 2+)

GSM-R application with shunting mode*

GPS / GLONASS / GALILEO / Beidou

FUNCTIONAL CHARACTERISTICS

usable with gloves	camera 13MP
left side PTT button	Wifi standards a/b/g/n/ac
MicroSD card slot	RF monitor
quick dialling register	SMS
automatic redialling	Dual SIM
Tilting sensor optional	configuration cloning
Bluetooth 5 BLE	LAS button left
Specific emergency button	Touchdisplay
Sensors: Distance sensor, Accelerometer, Light sensor, Magnetic sensor	
configuration and software update via external interface	

*(available in future software version)

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