

ROTEK GSM-R OPS Handset



Model: ROTEK RTK-ORM

Operational Purpose Handheld for Shunting (OPS) for GSM-R Railway Networks

The ROTEK RTK-ORM is an Operational Purpose Shunting handhelds (OPS) designed for the specialized needs of railway personnel with shunting operations responsibilities.

One Device for Both Shunting and General Operations

The RTK-ORM allow railway operators to invest in a single, convenient handheld for voice and data communications that supports both shunting services and general operations, with essential features such as voice group call over GSM-R and link assurance signal (LAS).

Designed for years of constant use, the RTK-ORM handhelds are highly reliable and ruggedized to withstand severe temperatures, shocks and vibrations, dust, and high humidity.

Dedicated buttons allow quick access to emergency call, push-to-talk and LAS. The RTK-ORM also support latest generation railway features such as OTDI, late entry, and frequency hopping in group call.

LONE WORKER PROTECTION

The RTK-ORM includes a built-in accelerometer and GPS to enable Lone Worker Protection, which senses deviations from a normal vertical position and automatically sends an emergency call (with the worker's GPS location) to the service center.

KEY FEATURES

- Convenient single handheld for both shunting and operational use
- Highly reliable, long-lasting performance
- Supports latest generation OPS requirements
- Safer work conditions with Lone

APPLICATIONS

Private network communications for railway workforce:

- Voice services with priority control
- Emergency call services
- Voice group calls and broadcast system
- Ground to train communications
- Track-side communications
- General personnel communications
- Train shunting operations



SPECIFICATIONS

HANDSET USER FEATURES	High resolution colour screen for use in sunlight (176 x 220 pixels) MMS, SMS, Predictive text T9 Built-in data and fax modem WAP 2.0, M-services Currency converter, calculator, alarm, timer JAVA support Accelerometer option GPS option Remote Speaker Microphone with PTT, Volume adjustment, AAB, REC/SEC Media formats supported: BMP, JPEG, PNG, GIF animated, Midi, iMelody Wave, AMR Hi-Fi and polyphonic ringtones, downloadable screen backgrounds and ringtones
SHUNTING OPERATIONS	Switch to Shunting mode with deactivation of group calls(including REC and SEC activation) Shunting menus with registration possibilities Configurable locally audible LAS tone Link Assurance Signal (LAS) available in shunting PtP call and in shunting group call LAS for pushing manoeuvres or humping scenarios Awakening Dispatcher alert
GSM-R FEATURES	ASCI (VGCS, VBS) REC eMLPP EIRENE Functional addressing Shunting mode Call confirmation Lone Worker Protection application
DATA SPEED	Peak download rate: up to 85,6kbps Peak upload rate: up to 42,8 kbps
FREQUENCY BANDS	GSM: 900 and 1800 MHz GSM-R: 876 - 915 MHz for uplink, 921 - 960 MHz for downlink
APPROVALS	Regulatory: CE, RoHS Carrier & Railway: On demand IP Class: IP65
PERFORMANCE	Power: 2W
TEMPERATURE RANGE	-20 to +55°C
INTERFACES	USB: 1 Bluetooth
LOCATION SOLUTION	GPS option
AIR INTERFACE	GPRS Class 10
BATTERY	Li-ion 2600mA Talk time: 7h50 Standby time: 450h
FORM FACTOR	Bar ruggedized, color screen, 176 x 220 pixels Weight: 230g with battery, Size:142 x 60 x 30 mm