



funktel FT5 S

High End TETRA Radio for health & safety in the workplace



- 3 W Output Power
- Unique Health & Safety Functionalities
 - Large, red emergency button
 - 4 manual alarm types
 - 4 automatic alarm types
 - 3 separate localization technologies
 - contactless guard control
- 4-way Satellite Receiver
 - ► GPS, GLONASS, Galileo, BeiDou
- Smart-ready Bluetooth module
 - 4.0 (LE) for audio and localization**
- Inductive localization module
 - for exact indoor localization
- Robust & Shock Resistant
 - ► IP 65 (dust-tight and water-jets protected)
 - rubber coating
- MicroSD and Micro SIM card slot
- Messaging and alarm indicator
 - Optical and acoustic
- Certified for use at dangerous workplaces
 - DIN VDE V 0825-1, DGUV 112-139 (of German government safety organization)

DGUV Test



The new generation – Smart TETRA robust, ergonomic, safe

funktel FT5 S Smart TETRA Radio for health & safety in the workplace

Technical data

Housing & Display Size (H x W x D):

Protection class:

Power Supply

Operating time (5/5/90):

Manual alarm types:

Automatic alarm types:

Guard control functionality:

"Security Light" functionality:

Localization

Inductive (IOS)

Satellite (GNSS):

RF Specification Frequency range:

Output power:

Receiver class:

Sensitivity:

Keypad:

Services

Class of emission:

Operating elements

Function elements

Special functions:

Voice services (TMO) a.o.:

Voice services (DMO) a.o.: Data services (TMO+ DMO):

with operation at funktel TETRA Secury System

Encryption (option):

shortly

Channel- / Duplex space:

Sensitivity:

Accuracy: Bluetooth (BT)

Temperature range

Weight:

Display:

Battery:

Capacity:

Safety Certification:

(w/o antenna and clip)

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138 x 55 x 27 mm (with standard battery),

138 x 55 x 32 mm (with extended battery)

Operation:

Charge:

Storage:

Li-Polymer, 3.8 V

25 kHz / 10 MHz

18K0 G7WDT

A&B

IP 65 (acc. IEC 60529, water-jets protected & dust tight)

-20... +55 °C

-30... +75 °C

High-res. 2,2" TFT colour display, 240 x 320 Pixel (QVGA), 262.000 colours, support of Cyrillic and Chinese character sets

1,900 mAh (standard battery) / 3,850 mAh (extended battery)

> 22 h, with extended battery, incl. GNSS (up to 31 h standby)
> 12 h, with standard battery, incl. GNSS (up to 21 h standby)

organization, for use at dangerous workplaces * emergency alarm (step 1+2), warning alarm (step 1+2)

Alarm forwarding to defined TETRA identities

IOS receiver module for exact indoor localization

up to room and floor accuracy (via inductive beacons)

Receiver module for GPS, GLONASS, Galileo, BeiDou, Outdoor localization acc. to ETSI LIP protocol -156 dBm (Hot Start) / -160 dBm (reacquisition) 5 m (50% probability), 10 m (95% probability)

BT module (4.0/LE) for rough localization** (via BT beacons)

380-430 MHz (other frequency ranges available on request)

illuminated, alphanumeric keypad with navigation key, two selection keys for easy navigation with quick-access,

Phone book with up to 1.000 individual and group entries

configurable charging mode (mute / display / TETRA)

Scan list (16 lists with up to 16 talk groups per list) Group call, Single call, Emergency call to DMO group, operation at DMO-gateway and DMO-Repeater**

Short data service (SDS) (up to 16 SDS-templates),

Authentication, Air Interface Encryption (AIE) Class 2 & 3 SIM-card based end-to-end-encryption (E2EE) on request

Status messages (up to 32)

Free assignable function key at the side (i.e. for warning alarm), two-level rotary knob (volume & group selection), large emergency button

MicroSD and Micro SIM card slot, accessory interface at the side, Bluetooth for audio and data, individually configurable audio parameter,

Group call (half duplex), Single call (half/full duplex), Telephony (full duplex), Emergency call (TETRA and public, i.e. "911"), Late entry, Dynamic group number assignment (DGNA),

3 W (power class 3), adjustable in 4 steps of 5 dB

-111 dBm (acc. to ETSI EN 302561 V2.1.1)

free assignable numeric keys for special tasks

(each configurable active/inactive) Position, No-motion, Time, Loss,

DIN VDE V 0825-1(&-11), DGUV 112-139, of German government safety

(each configurable active/inactive, reaction times, pre-alarm times and activator angle for position alarm (default: 55° +/- 5%))

contactless arrival point detection, for monitoring and validation of watchmen patrol way and time

incl. rough localization via BT or GNSS (without localization via IOS)

189 g (w/o battery) / 245 g (with standard batt.) / 283 g (with extended batt.)

kilovolt.net

Features

- High-End TETRA radio according to ETSI-standard
- Vibration
- Large red and easy accessible emergency button
- Emergency call in TMO and DMO mode
- Audio amplifier 500 mW (1 W at audio interface)
- Two memory card slots
 - Micro SIM for E2E Encryption (on request)
 - Micro SD for user-specific settings
- Sensors for health & safety
 - ► Hall-sensor for loss alarm**
 - Timer and acceleration sensor
 - Automatic brightness control
- Micro SD card functionality (optional)
 - Storage of individual alarm- and device settings
 - Storage of 2 different device settings (switchable)

Localization

- Inductive receiver for exact localization up to room and floor level
- Bluetooth module for rough localization**
- 4-way satellite receiver module (GPS, GLONASS, Galileo, BeiDou)

Health & Safety Functionalities

- Automatic detection of emergency situations
- Wide range of alarm and localization sensors
- Cyclic life check with automatic initiation of technical alarm
- Test of safety and localization sensors while log-in
- Automatic registration at control center

Accessories

- Single and multi-charger (6-way) for devices and/or batteries
- Programming station
- Mounting charger for safe deposit boxes
- High-capacity battery
- Carrying accessories and leather cases
- Headsets and audio accessories
- MicroSD card



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