

# funktel FT5

## High End TETRA Radio Industrial Handset



- Robust & shock resistant
  - ▶ rubber coating protects against falls
- Outdoor usage with protection class IP65
  - ▶ Dust & water-jet proof
- High output power 3 W
- 4 x Satellite reception
  - ▶ GPS, GLONASS, Galileo, BeiDou
- MicroSD and MicroSIM card slot
- Smart Ready Bluetooth-Modul
  - ▶ BT 4.0 (LE) (backwards compatibility)
  - ▶ Audio connector
- Messaging and alarm indicator
  - ▶ optical and acoustic



The new generation – Smart TETRA  
robust, ergonomic, safe

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## Smart TETRA Radio



### 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
- Integrated Sensors
  - ▶ Automatic brightness control
- Micro SD card functionality (optional)
  - ▶ Storage of individual alarm- and device settings
  - ▶ Storage of different device settings (switchable)

### Localization

- 4-way satellite receiver module (GPS, GLONASS, Galileo, BeiDou)
- Bluetooth module 4.0 (LE) Smart Ready

### Accessories

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



### Technical data

#### Housing & Display

Size (H x W x D):	138 x 55 x 27 mm (with standard battery), 138 x 55 x 32 mm (with extended battery)
Weight:	189 g (w/o battery) / 245 g (with standard batt.) / 283 g (with extended batt.)
Protection class:	IP 65 (acc. IEC 60529, water-jets protected & dust tight)
Temperature range:	Operation: -20... +55 °C Charge: 0... +40 °C Storage: -30... +75 °C
Display:	High-res. 2,2" TFT colour display, 240 x 320 Pixel (QVGA), 262.000 colours, support of Cyrillic character sets

#### Power Supply

Battery:	Li-Polymer, 3.8 V
Capacity:	1,900 mAh (standard battery) / 3,850 mAh (extended battery)
Operating time (5/5/90):	> 22 h, with extended battery, incl. GNSS (up to 31 h standby) > 12 h, with standard battery, incl. GNSS (up to 21 h standby)

#### Safety

Alarm:	TETRA emergency alarm button
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#### Localization

Satellite (GNSS):	Receiver module for GPS, GLONASS, Galileo, BeiDou, Outdoor localization acc. to ETSI LIP protocol
Sensitivity:	-156 dBm (Hot Start) / -160 dBm (reacquisition)
Accuracy:	5 m (50% probability), 10 m (95% probability)
Bluetooth (4.0 / LE):	Smart Ready

#### RF Specification

Frequency range:	380-430 MHz (other frequency ranges available on request)
Channel- / Duplex space:	25 kHz / 10 MHz
Output power:	3 W (power class 3), adjustable in 4 steps of 5 dB
Class of emission:	18KO G7WDT
Receiver class:	A&B
Sensitivity:	-111 dBm (acc. to ETSI EN 302561 V2.1.1)

#### Operating elements

Keypad:	Illuminated, alphanumeric keypad with navigation key, two selection keys for easy navigation with quick-access, free assignable numeric keys for special tasks
Function elements:	Free assignable function key at the side (i.e. for warning alarm) Large emergency button Two-level rotary knob (volume and group selection)
Special functions:	Phone book with up to 1.000 individual and group entries MicroSD and Micro SIM card slot Accessory interface at the side Bluetooth for audio and data* Individually configurable audio parameter Configurable charging mode (mute / display / TETRA)

#### Services

Voice services (TMO) a.o.:	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), Scan list (16 lists with up to 16 talk groups per list)
Voice services (DMO) a.o.:	Group call, Single call, Emergency call to DMO group, operation at DMO-gateway and DMO-Repeater*
Data services (TMO+DMO):	Short data service (SDS) (up to 16 SDS-templates), Status messages (up to 32)
Encryption (option):	Authentication, Air Interface Encryption (AIE) Class 2 & 3 SIM-card based end-to-end-encryption (E2EE) on request

\*) components present, software integration in progress

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