

## funkwerk FT4 S

TETRA radio set  
with personal security  
and localisation function



### High security level with personal security signal

#### Highlights:

- ▶ Full integration of personal security signal functions:
  - ▶ Big red emergency call button with two-stage security emergency call alarm
  - ▶ 4 manual alarms: Emergency call (1+2), warning (1+2)
  - ▶ 4 will-independent alarms: Position, no-motion, time and loss
  - ▶ Localisation with room and floor accuracy based on inductive localisation transmitters (IOS)
  - ▶ Contactless guard control function
- ▶ Certification for hazardous workplaces according to DIN V VDE 0825-1
- ▶ High-resolution 2.2" TFT colour display, 240 x 320 pixels (QVGA), 262,000 colours
- ▶ Outdoor-compatible due to IP 65 protection (jet-proof and dust-tight)
- ▶ Robust, shock-resistant housing with all-round rubber bumper as additional shock absorber
- ▶ Extensive range of audio accessories, can be screwed to lateral 12-pin interface (IP 65)
- ▶ Illuminated and clearly differentiated keys for safe handling, even with gloves
- ▶ Two microphones, one loudspeaker and receiver capsule for clear and loud audio communication
- ▶ Individually assignable function keys
- ▶ Optical signalling of network login and alarm messaging status



# funkwerk FT4 S

## TETRA radio set with personal security and localisation function

### Features:

- ▶ TETRA radio set according to ETSI standard
- ▶ Red and easily reachable emergency call button
- ▶ Emergency call in TMO and DMO mode
- ▶ Vibration alarm
- ▶ 500 mW/1 W audio amplifier at accessory interface
- ▶ PEI interface
- ▶ Three different memory card slots:
  - ▶ SIM card for E2E encryption
  - ▶ Mini SIM card for network provider data
  - ▶ MicroSD card for saving user-related settings and parameters
- ▶ Integrated GPS receiver (option)

### Security functions:

- ▶ Sensors for automatic detection of alarm situations
- ▶ Cyclic life check of technical alarm functions by control center\*
- ▶ Sensor and localisation test upon login
- ▶ All alarm parameters as well as settings can be saved on MicroSD card (option)
- ▶ Login\* and logout\* at control center
- ▶ Localisation with room and floor accuracy based on inductive localisation transmitters

### Optional FT4 S series accessories:

- ▶ IP 65-compatible audio accessories
- ▶ Desktop charger with second charging slot for additional battery charging
- ▶ 4-fold multi-charger
- ▶ Programming station with charging function for unit programming via USB, including PEI interface

\*) when operated with a Funkwerk TETRA Security System TSS



Funkwerk Security Communications GmbH  
John-F.-Kennedy-Str. 43-53  
D-38228 Salzgitter

Phone: +49-5341 - 22 35-0  
Fax: +49-5341 - 22 35-709

www.funkwerk-sc.com  
info@funkwerk-sc.com

### Technical data of funkwerk FT4 S TETRA handset

Dimensions:	145 x 60 x 36 mm (without antenna)	
Weight:	335 g	with 2700 mAh battery
Degree of protection:	IP 65, water and dust	according to IEC 60529
Certification:	BG PNA (hazardous workplaces) according to BGR 139, DIN V VDE 0825-1	
Security functions:	Will-independent alarms:	Position, no-motion, time and loss alarms, configurable reaction times
	Position alarm:	Approx. 55° +/- 5%
	Manual alarms:	Emergency call alarm (1+2), warning alarm (1+2), configurable: active/inactive
	Guard control function:	Contactless
	Localisation:	By inductive localisation transmitters
Temperature ranges:	Operation:	-20 ... +55°C
	Charging:	0 ... +40°C
	Storage (without battery):	-30 ... +75°C
Energy supply:	Lithium polymer battery, 3.7 V	2700 mAh, including vibration function
	Operating time:	Up to 12 h (5/5/90) with 2700 mAh battery
RF specifications:	Frequency range:	380-430 MHz other frequency ranges on request
	RF Channel bandwidth:	25 KHz
	Duplex spacing:	10 MHz (380-470 MHz)
	RF transmit power:	1 Watt, performance class 4
	Receiver class:	A&B
	Transmit power regulation:	in 3 steps of 5 dB each
	Sensitivity (static/dynamic)*:	-112 dBm / -103 dBm
	Range extension (option):	3 dB gain antenna
Operating modes:	GPS (option):	integrated GPS antenna
Display:	High-resolution 2.2" TFT colour display Up to 262,000 colours with 240 x 320 pixels (QVGA)	
Keys / controls:	Operating concept for easy handling: <ul style="list-style-type: none"> <li>▶ Illuminated alphanumeric keypad</li> <li>▶ Full and partial keypad blocking</li> <li>▶ Operation even with gloves due to clearly differentiated keys</li> <li>▶ 3 lateral freely assignable function keys</li> <li>▶ Big and easily reachable emergency button with two-stage Security emergency call alarm</li> <li>▶ 3 navigation and 2 selection keys for easy menu navigation</li> <li>▶ Two-level rotary button for volume and group selection</li> </ul>	
	Phone book for telephone and radio users Scan list function with 16 lists and 16 voice groups per list	
Voice services (TMO):	Group call, Late Entry, Individual call, Half / full duplex, Telephony, Full duplex, Emergency calls in the TETRA and in the public network (e.g. 911)	
Voice services (DMO):	Group call, Individual call, Emergency call to DMO group, Support for DMO gateway mode	
Messages:	Status messages	Definition of up to 32 status messages
	Short messages	Storage of up to 16 short messages (SDS)



Charger with additional charging slot for second battery



Robust, shock-resistant housing, illuminated keypad with good differentiation for use when wearing gloves