funkwerk FT4

TETRA Industrial handset

Robust TETRA handset for safe voice communication in industrial applications

Highlights:

- ▶ **High resolution 2.2" TFT colour display**, 240 x 320 Pixel (QVGA), 262,000 colours

- ▶ **Outdoor-compatible due to IP 65 protection** (jet-proof and dust-tight)

- ▶ **Robust, shock-resistant housing** with all-around rubber bumper as additional shock absorber

- ▶ **Extensive range of audio accessories**, can be screwed to lateral 12-pin audio 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

- ▶ **Big red emergency call button**

- ▶ **Individually assignable function keys**

- ▶ **Optical signalling** for network login and alarm messaging status

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Features:

- ▶ TETRA radio set according to ETSI standard
- ▶ Red and clearly reachable emergency call button
- ▶ Emergency call in TMO and DMO mode
- ▶ Vibration alarm (option)
- ▶ Programming via USB interface
- ▶ 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
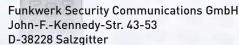- ▶ Integrated GPS receiver (option)

Optional FT4 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

Technical data of funkwerk FT4 TETRA Handset			
Dimensions:	145 x 60 x 36 mm	(without antenna)	
Weight:	295 g	with 1500 mAh battery	
	325 g	with 2700 mAh battery	
Degree of protection:	IP 65, water and dust	according to IEC 60529	
Temperature ranges:	Operation:	−20 … +55 °C	
	Charging:	0 … +40 °C	
	Storage (without battery):	−30 … +75 °C	
Power supply:	Lithium polymer battery, 3.7 V, 1500 mAh		
	Option: Lithium polymer battery, 3.7 V, 2700 mAh, including vibration function		
RF specifications:	Frequency range:	380-430 MHz 410-470 MHz (in preparation) 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: ▶ Illuminated alphanumeric keypad ▶ Full and partial keypad blocking ▶ Operation even with gloves due to clearly differentiated keys ▶ 3 lateral freely assignable function keys ▶ Big and easily reachable emergency button with two-stage Secury emergency call alarm ▶ 3 navigation and 2 selection keys for easy menu navigation ▶ Two-level rotary button for volume and group selection		
	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