

# funkwerk FT4 Ex

**ATEX TETRA**  
explosion-protected radio set



## High performance and security in explosive environments

### Highlights:

- ▶ Explosion protection according to ATEX standard
- ▶ 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 bumping as additional shock absorber
- ▶ Extensive range of ATEX 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
- ▶ Big red emergency call button
- ▶ Individually assignable function keys
- ▶ Optical signalling of network login and alarm messaging status



# funkwerk FT4 Ex

## ATEX TETRA explosion-protected radio set

### Features:

- ▶ TETRA radio set according to ETSI standard
- ▶ Explosion protection according to ATEX standard
- ▶ Red and easily reachable emergency call button
- ▶ Emergency call in TMO and DMO mode
- ▶ Vibration alarm
- ▶ Programming via USB interface
- ▶ PEI interface
- ▶ SIM-card slot for E2E encryption
- ▶ Integrated GPS receiver (option)

### Optional FT4 series accessories:

- ▶ ATEX- and 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 Ex TETRA handset

Dimensions:	145 x 60 x 36 mm	(without antenna)
Weight:	359 g (with 1500 mAh explosion-proof battery)	
Degree of protection:	IP 65, water and dust	according to IEC 60529
Explosion protection: (ATEX)	Gas:	II 2G Ex ib IIA T3
		II 2G Ex ib IIC T4*
Temperature ranges:	Dust:	II 2D Ex ibD T125°C IP 6x*
	Operation:	-20 ... +55°C
	Charging:	0 ... +40°C
Power supply:	Storage (without battery):	-30 ... +75°C
	Lithium polymer battery, 3.7 V, 1500 mAh, explosion-proof, incl. vibration function	
Operating time:	Up to 8 h (5/5/90) with 1500 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
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	
	▶ 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, 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)

\*) in preparation



Charger with additional charging slot for second battery



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

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