Funkwerk and TETRA: the future of professional communication.

The pan-European TETRA trunking radio standard offers all the advantages of professional communication and will replace analogue and proprietary radio paging systems in the middle term. TETRA combines voice communication, status and localisation information with efficient data transfer.

The new, efficient generation of terminals enables the integration of the broadest possible range of individual features in private sector and industrial networks.

Funkwerk Security Communications

Based in Salzgitter, Funkwerk Security Communications GmbH is a leading manufacturer of professional security and communications solutions based on DECT, GSM and TETRA technology, suitable for use by industry, the healthcare sector and public authorities.

With more than 40 years' experience, we are specialists in personal security systems and have long lasting know-how in the development and production of terminals in accordance with German Employer's Liability Insurance Association Rules BGR139.

Funkwerk is one of the largest manufacturers of personal security systems as well as intrinsically safe DECT- and TETRA handsets for professional and industrial applications. We produces around 250,000 mobile terminals annually at our factory in Salzgitter, Germany.

We offer individualised, expert advice.

With more than 40 years' experience, Funkwerk Security Communications has developed cutting-edge personal security systems and security technology for industry, public authorities and private users.

Our long lasting know-how regarding installation and operation of personal security systems is at your disposal. Working in close cooperation with our clients, we develop tailor-made and flexible solutions. We look forward to your call!
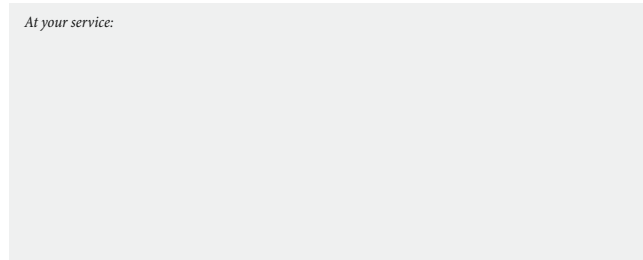
Security. Everywhere.

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At your service:

funkwerk FT4 series: TETRA Handsets

Industry
Personal Security
Explosion Protection

funkwerk FT4 series: TETRA handsets for special applications

With the FT4 series of TETRA handsets, Funkwerk sets the benchmark in terms of functionality, user-friendly operation and ease of use. Optimal ergonomics, comprehensive protection against external factors as well as comprehensive TETRA performance features give the FT4 series the competitive edge. In addition, the FT4 S (Ex) Security versions offer high-quality integrated sensors for personal security with manual and automatic alarm initiation as well as localisation functions—even within buildings. All devices are available in the 380-430 and 410-470 MHz frequency bands.

Quality made in Germany

Highlights:

Suitable for outdoor use (IP 65)
All devices in the funkwerk FT4 series comply with the IP 65 protection class (dust-tight and water-jets protected)—for use under extreme conditions.

Best display in its class
High-definition, crystal clear 2,2" TFT display with 240 x 320 pixels and 262 000 colours—even in the Ex-devices.

Personal security
The FT4 Security versions are equipped with high-performance sensors for personal security, as well as in- and outdoor localisation with automatic alarm functions.

Certified intrinsically safe
The Ex versions of the FT4 series are suitable for use in hazardous gas and dust atmospheres and are certified in accordance with ATEX as well as IECEx directives.

microSD- and crypto-cards
To allow the easy exchange of devices without technical support, all network and user data can be stored on separate (microSD) memory cards. An additional crypto-card slot is available for TETRA end-to-end encryption.

Frequency and accessories
All FT4 versions are available in the 380–430 and 410–470 MHz frequency bands and offer a comprehensive range of accessories—also for use in Ex-zones.

funkwerk FT4: TETRA handset for utilities and industry

Thanks to its robust construction, even the standard FT4 series device is suitable for use in harsh industrial environments. Clearly demarcated, illuminated keys guarantee optimal operability even while wearing gloves.

The outstanding display and icon-based user interface ensure optimal control, even in conditions of poor visibility. The devices are optionally available with GPS and in the 380–430 and 410–470 MHz frequency bands.

funkwerk FT4 S: TETRA handset for personal security

The funkwerk FT4 S is equipped with integrated sensors for the automatic recognition of dangerous situations and the initiation of alarms. A unique function allows indoor localisation in the event of an emergency. The comprehensive range of security features includes cyclic testing of sensor functions and an optional GPS module.

Specially developed for personal security and certified in accordance with German Employer's Liability Insurance Association Rules (BGR139), the FT4 S offers, in combination with the Funkwerk TSS TETRA Secury System, the greatest possible protection in hazardous environments and for lone workers.

Alarm modes of funkwerk FT4 S (Ex) handsets

Push alarms	Position alarm	Loss alarm	No-motion alarm	Time alarm

funkwerk FT4 Ex: intrinsically safe TETRA handset

The efficient and intrinsically safe funkwerk FT4 Ex TETRA handset is specially designed for professional users and for use in highly sensitive environments.

The FT4 Ex is safe for use in gas and dust atmospheres with a high risk of explosion and is certified in accordance with the strict European ATEX as well as international IECEx directives:

Gas : II 2G Ex ib IIC T4 Gb
Dust : II 2D Ex ib IIIC T125°C IP6X Db

funkwerk FT4 S Ex: intrinsically safe TETRA Security handset —unique, (Ex)tra safe.

By means of specific special functions and sensors for manual and automatic alarm initiation, the funkwerk FT4 S Ex combines the highest level of intrinsic safety (explosion protection) with comprehensive personal security functions. This is the first time ever that all these features are offered together in a single TETRA handset.

Naturally, the Ex-versions in the FT4 series are also available with a GPS localisation function and additionally in the 410–470 MHz frequency band.

Gas : II 2G Ex ib IIC T4 Gb
Dust : II 2D Ex ib IIIC T125°C IP6X Db