funktel FB4

DECT over IP Base Station

■ The funkwerk FB4 IP base station enables a high-performance DECT/IP communication network to be implemented in a straightforward, flexible manner – and be adapted to meet individual requirements and circumstances. All cordless telephony functions of the central IP telephony system are supported by the base station, while the DECT Controller makes configuring the DECT network a user-friendly and convenient process.

Thanks to the IP interfaces the DECT base station has the flexibility to be integrated in existing or dedicated IP infrastructures – either via copper or fibre optic cable. This means that planning and execution can be done on site, simply and cost-effectively.

Additionally, when linked to a funkwerk Secury Server, the f.airnet DECT over IP infrastructure enables a personal security system to be set up, which complies with the requirements of the Federal German Employers' Liability Insurance Association regarding the safeguarding of lone workplaces. The Secury Server monitors and checks the reporting process, the relaying of alarms and the logging of alarm events, as well as performing a cyclic function check of the subscriber devices and the base station. Multiple programming possibilities allow security and alarm processes to be customised in detail to the individual requirements of the customer.

Integrated contacts enable the greatest possible range of technical installations to be connected to the funkwerk FB4, which can relay the specified events or conditions of each contact, such as temperature measurement devices, filling-level indicators, door contacts, motion sensors, etc. by means of DECT messaging information.

funktel DC100/DC200

DECT Controller

■ The funkwerk DC100 and DC200 DECT Controllers form the central management nexus of the complex DECT infrastructure. Using the DECT Controller, one can configure all functions of the DECT system via a clear, easy-to-interpret Web-based front-end while maintaining control over all the terminals connected to the network.

The scan function automatically recognises all the inter-connected base stations. DECT and DECT over IP encryption, VLANs, SIP functions for Voice over IP telephony and many other aspects are configured via the DECT Controller.

Offering a comprehensive overview, the DECT Controller also enables the centralised management of servicing and monitoring functions. Synchronisation of the funkwerk FB4 and mass deployment of the DECT handsets is also supported, as is time-setting via the NTP server and SNMP.

This offers an uncomplicated means of opening the DECT environment to existing SIP and Voice over IP telephone exchanges (PBX). What is more, by connecting a Secury Server to the funkwerk DECT Controller, alarm and messaging functionality can even be extended to the VoIP-PBX systems of other manufacturers (in most cases).

Specifications funktel FB4
DECT over IP Base Station

Dimensions	203 x 155 x 27 mm approx.
Temperature range	Operation: −10 ... +55 °C
	Storage: −20 ... +60 °C
Power supply	Power over Ethernet
	or separate 230 V plug-in power supply
Network comnnection	Selectable − Ethernet TP or FX

funktel FB4 IP TP

Interface standard	IEEE 802.3u − 100 BaseTX Fast Ethernet
	(twisted pair copper)
	IEEE 802.3 − 10BaseT Ethernet (twisted pair copper)
Network cable	RJ45-8p, UTP Cat. 5 E (100 m max.)
	EIA/TIA-568 − 100 Ohm STP (100 m max.)
PoE (Power over Ethernet)	IEEE 802.3af, Power Class 1, supplied via
	RJ45-8p pin (1, 2 and 3, 6)
	Phantom power on RX, TX, or supplied via
	RJ45-8p pin (4, 5 and 7, 8), supplied via unused
	wire pairs, 0,44 … 3,84 W, 36 … 57 V

funktel FB4 IP FX

Interface standard	IEEE 8092.3u − 100BaseFX Fibre Interface
Network cable	LWL with LC jack
Multimode fibre	62,5 / 125 mm (max. 9000 m)
	50 / 125 mm (max. 5000 m)

Contact interfaces

Contact connection	for the relaying of local data, which can be transferred
	via a contact, such as temperature reports, fill-level
	indications, door alarms, motion-detectors, etc.

ATEX preparation

prepared for	Ex Zone 1, Ex Zone 2

Specifications funktel DC100 / DC200
DECT Main Control Unit

Configuration

Convenient configuration on PC via Web front-end

Scan function with automatic recognition of all connected base stations

Configuration of DECT encryption

SNMP supported

VLAN supported

Encrypted transmission of IP-DECT signals on the LAN

Mass deployment

Various monitoring functions (servicing and logging)

SIP configuration (conversion of DECT subscribers to SIP subscribers)

Synchronisation of the base stations

via wireless interfaces

via Ethernet (IEEE 1588-compliant, as from Q2/2013 (approx.),

with special hardware)

mixed

PBX connection

Interoperable with existing SIP-/VoIP-PBX

Simple means of making a DECT environment available to existing
SIP-/VoIP-PBX

When installed in conjunction with funkwerk Security Server,
offers alarm and messaging functionality to most SIP-/VoIP-PBX

Performance spectrum

funktel DC100	up to 250 DECT handsets
	up to 100 IP base stations
	up to 40 simultaneous connections
funkwerk DC200	up to 1,000 DECT handsets
	up to 250 IP base stations
	up to 60 simultaneous connections

DECT handsets — IP-DECT base station — IP-DECT base station — SIP telephone — IP-DECT controller — SIP telephone — Internet — SIP telephony — PBX — ISDN — ISDN telephony — Media gateway

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