

Transmitters H952T U952T



Description

The Terminal transmitter is part of the On-site Paging (OSP) - and Personal Security (PSS) Systems. It operates either in the HF range (H952T) or in the UHF range (U952T). Output power can be adjusted to comply with regulations of applicable authorities. The transmitter is housed in a 900 module plastic box with a metal heat sink and shield cover at the top.

Applications and Operation

The Terminal Transmitter communicates with the Central Unit in the system via the D-bus.

To increase the output power a power amplifier (H954 or U954 depending on frequency range) can be connected to the transmitter. This can be used to extend the coverage area or when radio conditions are difficult. If paging priority is used in the system it can be used to control (switch on/off) the power amplifier.

To monitor the transmitter's output power delivered to the antenna, output power supervisor H950SC/U950SC is used to measure the ratio between forward power and the reflected power. When reflected power is excessive a fault message is displayed on for example a Control Keyboard in the system.

When terminal transmitter H952T or U952T is used in a synchronous multi-transmitter network, it must be equipped with interface module T952SM/FL and an FL licence option.

For more details on frequency locking, see data sheet TD92037GB for the combined speech and frequency lock module.

Terminal transmitters in speech installations must also be equipped with interface module T952SM/FL.

PTT restrictions in different countries may limit some functions.

Technical specifications are listed on back of page.

Technical Specifications

Dimensions:	275 x 130 x 60 mm
Weight:	1.0 kg max
Case:	PC/ABS, light grey
Operating temp. range:	- 20 to + 55°C
Supply voltage:	12.5 Vdc ± 10% ¹⁾
Current consumption:	H952: 2.0 A max U952: 2.5 A max
External connections:	Screw terminals and modular connectors
Antenna output connections:	Coaxial connector TNC
Data interfaces:	RS485
Speech input:	Transformer isolated via interface module
Input level:	0.77 Vrms
Frequency range:	700 - 3000 Hz

Transmitter Section

Frequency range:	H952: 25 - 50 MHz U952: 425 - 475 MHz
Channel separation:	10 / 12.5 / 20 / 25 kHz
Deviation:	1.5 / 1.5 / 2.5 / 3 kHz
Adjacent channel suppression:	> 55 / > 60 / > 70 / > 70 dBc
Modulation:	FSK
Frequency stability:	± 0.6 kHz
Output power:	Adjustable, 5 W max into 50 ohm
Spurious emission:	<250 nW
Available versions:	H952T, U952T

Accessories

Slave driver:	U952DR (only used with U952T)
Power Divider	MPT-50 (only used with H952T)
Speech module / Frequency lock module	T952SM/FL
Output power supervisor:	H950SC / U950SC
Antenna transformer for HF:	MAT-50
Antennas and guying kits:	
Power supply:	1)

Licences

FL and FOM/SFO
FOM/SFO

¹⁾ Power supply requirements:

External power supply must incorporate an insulating transformer. Output current must be inherently limited to max. 8 A.