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TECHNOLOGIES UNDER CONTROL

HF RADIO MODEM

RADIO COMMUNICATION
AND DATA EXCHANGE SYSTEMS

PSK-1001



- NATO compliant
- Data transfer rates from 50 to 19200 bps
- Co-operates with HF transceivers

The PSK-1001 is a high speed data transmission HF modem that complies with STANAG 4285, STANAG 4529, STANAG 4415, STANAG 4539 and MIL-STD-188-110B.

The multipath interferences are suppressed by the channel equaliser.

The modem performance is additionally enhanced by FEC convolution error correction coding and Viterbis' decoder for data transfer rates from 75 to 19200 bps.

The waveform, data transmission rates and all other modem functions are accessible from the front panel keyboard and LCD display as well as via the remote control interface.

The remote control commands comply with the STANAG 5066-ANNEX E requirements.

The PSK-1001 modem has interfaces ensuring its compatibility with HF transceivers, cryptographic equipment and remote control terminals.





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SPECIFICATION

Dimensions in mm:	214×310×44
Weight in kg:	2
Mounting:	Free standing or 19" rack mountable
Power supply:	230 V AC, 50 Hz
Power Input:	Max. 40 W
Operating Temperature:	0°C ÷ 50°C -10°C ÷ + 70°C (max.)
Relative humidity:	98% at 35°C
Shock/vibration:	NO-06-A103 (MIL-STD-810E)
EMC Compatibility:	NO-06-A200 (MIL-STD-461D)
Interfaces:	RS-232 standard, RS-422 standard, RS-423 standard, RS-485 standard, Ethernet
Audio input:	600Ω balanced gain level -20dB ÷ 6 dB
Audio output:	output gain level -20 dB ÷ 6 dB
Remote control:	RS-232 standard, RS-422 standard, RS-423 standard, RS-485 standard, Ethernet, control via ASCII Terminal

WAVEFORM	MODE	DATA RATES
STANAG 4285	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200, 2400 (bps) 1200, 2400, 3600 (bps)
STANAG 4529	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200 (bps) 600, 1200, 1800 (bps)
STANAG 4415	Coded PSK	75 (bps)
FSK	FSKV	50, 75, 300, 600 (bps)
STANAG 4539 (Very Robust)	Coded PSK	75 (bps)
STANAG 4539 (Low to Medium Data Rate)	Coded PSK	150, 300, 600, 1200, 2400 (bps)
STANAG 4539 (High Data Rate)	Coded PSK/QAM Uncoded PSK/QAM	3200, 4800, 6400, 8000, 9600 (bps) 12800 (bps)
MIL-STD-188-110B (Medium Data Rate)	Coded PSK Uncoded PSK	75, 150, 300, 600, 1200, 2400 (bps) 4800 (bps)
MIL-STD-188-110B (High Data Rate)	Coded PSK/QAM Uncoded PSK/QAM	3200, 4800, 6400, 8000, 9600 (bps) 12800 (bps)
MIL-STD-188-110B (2 ISB)	Coded PSK/QAM	9600, 12800, 16000, 19200 (bps)

1 Hz step adjustment in FSK mark/space mode for range within 50 ÷ 2999 Hz.