VLF - HF Receiver RX 3002

Features
- DSP technology, uploadable firmware
- High resistance against electromagnetic transmissions
- Full remote control capability
- Designed for military applications
- VLF MSK-reception with MSK 1001M
- Comprehensive built-in test

Technical Data
- Frequency range: 10 kHz to 30 MHz
- Frequency tuning: In decades from 1 Hz to 10 MHz
- Passband tuning: ±50% of selected bandwidth in 10 Hz steps
- BFO: ±5 kHz in 10 Hz steps
- Channel memory: 1000
- Scan functions: Scan by channel, frequency sweep
- Frequency stability: 3 x 10^-8 per day, options on request
- Modes of operation:
  - DSB (A2A, H2A, A3E)
  - SSB (J3E USB/LSB, R3E, H3E)
  - ISB (B9W)
  - CW (A1A)
  - L11, L22 optional
- IF-Bandwidths: 0.1, 0.15, 0.3, 0.6, 1.5, 2.4, 2.7, 3.2, 3.4, 6.0, 7.0 kHz, others on request
- Control interface: RS 232, RS 422 and RS 485
- Sensitivity:
  - without HF-preselection
    - (10 dB, SINAD with CCITT-Filter)
    - A3E at f=0.3, B=6kHz: 40-200 kHz < 2 µV
    - A2A at f=0.3, B=6kHz: 2-30 MHz < 1.5 µV
    - A1A at B=300 Hz: 10-40 kHz typ. 0.5 µV
    - 0.04-30 MHz < 0.2 µV
    - J3E at B=0.3-2.7 kHz: 10-40 kHz typ. 1.5 µV
    - 0.04-30 MHz < 0.5 µV
- Max. antenna input (volt. for 10 min.)
  - 30 V EMF at 10 kHz to 1.5 MHz
  - 100 V EMF at 1.5 MHz to 30 MHz
  - 50 V EMF at 30 MHz to 400 MHz

General Data
- Power supply: 85-265 VAC, 45 to 63 Hz, 65 VA ± 20%
- Environmental specifications:
  - Operating temperature: -15°C to +55°C
  - Humidity: 95% up to 40°C
  - Shock: acc. to BV 0430, sheet 16 (without shockmounts)
  - Vibration: acc. to BV 0440, diagram 1 and 6 (-10dB)
  - EMI/EMC: acc. to VG 95373 or MIL-STD-461 C
- Physical characteristics:
  - Height: 133 mm (3 HU)
  - Depth: 450 mm (without handles)
  - Width: 485 mm (19”)
- Weight: approx. 11 kg

Internal Options
- Automatic HF-preselector PSI 3000
  - tuning time < 5 s
  - f <1.5 MHz: low pass filter
  - 1.5 - 30 MHz: bandpass filter
  - Selectivity: min. 40 dB at 10% frequency deviation
- Interface board IB 3000
  - BCD frequency output, TTL-level 100 Hz steps
- Frequency reference interface FS 3000M
  - Output: 1 MHz for VLF-MSK demod. MSK 1001M
  - L11 capability acc. to MIL-STD-188-203-1A
  - L22 capability acc. to STANAG 5522
- Crossfox/ Fost mode
- DC-supply: 21 to 32 V floating, appr. 50W

Optional accessories
- Rubidium frequency standard RS 1010 for up to 6 receivers
- 3 RU housing KG 3/500
- Headphone
- Windows remote control DLL
- Windows remote control software.