VHF/AM Transceiver

TG560
ATC

A new VHF Multichannel Transceiver for Ground to Air Communication at Airfields, Airports, Airlines and Control Centres.

General features:

- Frequency range: 118 - 137 MHz (optional 118 - 156 MHz)
- Fully compatible with 8.33 kHz Channel spacing, requirements
- Local and Remote control operation
- Digital Signal Processing
- Built in Test (Bite)
- Excellent technical dates according to ETSI EN 300 676
- Balanced Audio Interface
- Isolated PTT and SQUELCH control
- Balanced Voice Recording Output

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General data:

- Frequency range: 118,00-136,980 MHz (Standard) 118,00-155,975 MHz (Extended)
- Channel spacing: 25 kHz / 8.33 kHz, automatically selected
- Modulation type: AM, A3EJN
- AC-Power: 9 0 VAC .... 250 VAC, 45 Hz .... 65 Hz
- DC-Power external: Range: 18 VDC .... 35 VDC Normal: 28 VDC
- RF Antenna connection: N-Connector female
- Warm up time: 5 sec.
- Duty cycle: RX/TX: 4 : 1
- Cooling: Convection, temperature controlled fan
- Voice recorder output: 0 dBm, +3 / -12 dB @ 600 Ω, balanced
- Environmental data:
  Temperature range: Operating -20°C .... 55°C Storage -55°C .... 85°C
  Humidity: 48h, 50°C, 95% RH, without condensation
- Dimensions (WxDxH):
  Case: 428 x 350 x 86,5 mm
  19" Unit: 482,6 x 350 x 88,1 mm
- Weight: 7,0 kg

Transmitter data:

- Carrier power: 20 W, +/- 1,5 dB (Standard) 9.5 W (settable by software)
- Frequency stability: 1 ppm
- Protection of the transmitter: VSWR = 6 without any damage
- Modulation depth: 85% m 95%
- Modulation compression: Linear up to 85%, 62 dB
- Modulation distortion: 10%
- AF-Response: 350 Hz .... 2500 Hz (8.33 kHz) 2 dB ≥ ripple ≥ -4 dB, reference 0 dB @ 1 kHz
- Adjacent channel power: 50 dB (8.33 kHz), 60 dB (25 kHz)
- Broadband noise measurem.: -130 dBc/Hz
- AF-Line input level: -20 dBm to 10 dBm adjustable with internal potentiometer
- AF-Line input impedance: 600 Ω +/- 10%, balanced
- Locale Mike sensitivity (Dyn.): 2 mV to 10 mV @ 200 Ω, balanced

Receiver data:

- Sensitivity (Mod. Depth 30%): -101 dBm for 12 dB SINAD
- Effective bandwidth: nel ≥ 2.8 kHz for 8.33 kHz Chan-
  ≥ 8.5 kHz for 25 kHz Channel
- AF-Response: 350 Hz .... 2500 Hz (8.33 kHz) 2 dB ≥ ripple ≥ -4 dB, reference 0 dB @ 1kHz 350 Hz .... 3400 Hz (25 kHz) 2 dB ≥ ripple ≥ -4 dB, reference 0 dB @ 1kHz
- Adjacent channel rejection: ≥ 60 dB
- Spurious response rejection: ≥ 70 dB
- Intermodulation response rejection: ≥ 70 dB
- Blocking or desensitisation: ≥ 80 dB
- Cross modulation rejection: ≥ 80 dB
- Squelch operation: 6 dB S+N/N 12 dB, software adjustable Override level -85 dBm
- Audio noise: ≥ 40 dB S+N/N @ -13 dBm
- RF-Input level range: -101 dBm RFlevel 10 dBm
- RF-Dynamic range: 6 dB AF variation for 100 dB RF variation
- AF-AGC for 30% m 90%: AF-Level variation 1.5 dB
- AF-Line output level: -20 dBm to 10 dBm, adjustable with internal potentiometer
- AF-Line output impedance: 600 Ω +/- 10%, balanced
- Local headphone output power: ≥ 100 mW @ 600 Ohm, unbalanced, Volume control at the front panel
- Ext./Int. speaker power: ≥ 4 W sinus @ 4 Ω, Volume Control at the front panel

Approval:

- DFS (Deutsche Flugsicherung)
- D-0012/2005

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