HF Wireless Communication Transceiver

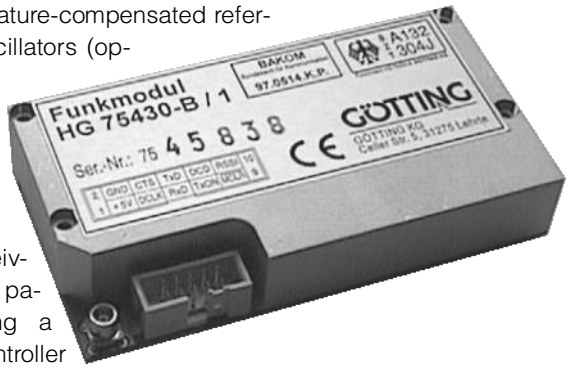
HG 75430-B

HF Wireless Data Communication Transceiver

Transceiver module HG 75430-B represents the state-of-the-art transceiver technology for industrial low-capacity systems of the 70 cm band.

Optimized technology and minimization of elements to be adjusted, guarantee long-term stable operation even under aggravating conditions.

The HF Transceiver is equipped with separate synthesizers for transmitter and receiver and therefore reaches extremely short switchover times (max. 2 ms). State-of-the-art GMSK modem chips enable reliable transmission with low bit error rates at low receive levels.



Digitally temperature-compensated reference quartz oscillators (option) allow powersaving operation within a large range of temperatures.

The HF Transceiver can easily be parametered using a PC or microcontroller connected via the integrated serial interface. Built-in service functions allow carrying out radio communication testings.

Overview

- **Multichannel transceiver unit for various applications in wireless data transmission.**
- **For applications in logistics, materials handling, stockkeeping, industrial and public transport, security engineering, pollution control, etc.**
- **Including integrated service functions.**
- **Comfortable interface for PCs or microcontrollers.**
- **Type Approved in the following countries: A, B, CH, D, DK, E, F, GB, IRL, L, M, NL, PL, SE, SLO, USA**
- **Type approval pending in the following countries: P**

Technical Data

- Transmission Frequencies	430 to 470 MHz; depending on type approval standards in each country
- Modulation Method	GMSK 9.6 kbit/s
- Dimensions	94 x 49,5 x 18,5 mm (B x H x D)
- Operation Temperature	-10 to +50° C, extendable to -25 to +70° C
- Output Power	500 mW
- Output Resistance	50 Ohm
- Current Consumption (T/R)	50 mA / 300 mA
- Input Sensitivity	-105 dBm at 20 dB SINAD
- Operating Voltage	5 V ±5 % < 100 mV hum
- Interface Connector	10 pin contact strip for flat band cable
- Antenna Connector	MCX-connector
- Pin Allocation	PIN1 = +5 V / PIN2 = GND / PIN 3 = DCLK_OUT / PIN4 = TX_RDY / PIN5 = RXDATA / PIN6 = TXDATA / PIN7 = TX_ON / PIN8 = DCD / PIN9 = $\overline{\text{MCLR}}$ / PIN10 = RSSI

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