

NIROS TRX2001 for flexible, reliable and economical data transfer



NIROS Communications A/S
Innovative and customized
radio communication
for professionals



NIROS TRX2001 - Data radios

The data radios are developed for receiving and transmitting data independent of the availability of nearby telephone lines.

NIROS TRX2001 provides a unique flexibility and is ideal for use in remote places. Another advantage is that the operating cost of a data radio network is kept to a minimum. Our range of data radios are capable of simplex or semi-duplex operation and can also be configured to work as base stations or repeaters.

NIROS TRX2001 is built into a robust metal housing and can be mounted either via the fixing holes or clicked directly on a DIN rail.

The series comprise of two versions of the **NIROS TRX2001** - P82 and P83. The versions differ in protocols, error correction ability, etc. Application notes on request.

Programming of parameters like configuration, channels, addressing, power output (up to 5 Watt) is performed from a standard PC using the built-in RS232 interface of the radio.

The typical applications for long range wireless data transmission include

- **Energy management**
- **Traffic surveillance and control**
- **Environment monitoring**
- **Alarm networks**

Technical specifications for NIROS TRX2001

Frequency range	403-470 MHz
Bandwidth	20 MHz
Channel spacing	25 kHz (12.5 and 20 kHz optional)
Channel selectivity	70 dB
Receiver sensitivity, UHF	BER = 10 ⁻² / -112 dBm / 0.55 μV (1/2 EMF)
Dimensions	H: 138 mm, W: 67 mm, D: 30 mm
Weight	313 g
Temperature range	-25°C til +55°C
Power supply	7.2 V ± 10% · RX: 90 mA · TX (1W): 1A · TX (5W): 2.2A
Standards	EN 300 086-2 / EN 300 113-2 / EN 301 489-5 / EN 60 950