

NIROS TRX1001 for flexible and safe communication



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

NIROS TRX1001 - Advanced system radio

The portable **NIROS TRX1001** is developed and approved for professional land mobile and maritime radio communication. **NIROS TRX1001** is used in many parts of the world by professionals, who require advanced and high quality equipment, e.g. security- and

emergency services as well as the industry and home care. The radio is advanced, and at the same time very user-friendly and handy to operate. **NIROS TRX1001** has clear user defined symbols and is easily adapted to meet individual requirements.

Text transfer to the display makes it suitable for use within home care, technical alarm, automatic fire call and status messages. Should a call be left unanswered, it will be stored in the radio's internal memory.

- **Backlit and legible display.**
2 lines of 14 alphanumeric characters
- **4 or 16 button keypad**
(4 button for easy operation while wearing gloves)
- **User-defined symbols in display and programmable alarm function**

- **CCIR, ZVEI, ZVEI-S, EEA and DTMF, CTCSS plus individual tone systems**
- **Scrambler and encryption facility**
- **Tilt switch**
- **Robust radio in die-cast metal housing.**
Can be delivered in black, green or red

Technical specifications for NIROS TRX1001

Frequency range	68-88 MHz / 146-174 MHz / 403-470 MHz
Bandwidth	20 MHz/4m, 28 Mhz/2m, 20MHz/UHF
Number of channels	100 as standard - 1,000 as option
Channel spacing	20/25 kHz programmable per channel. 12.5 kHz as option
RF Power output	1-5 Watt, individually programmable per channel
Tone systems	CCIR, ZVEI, ZVEI-S, EEA, DTMF and CTCSS plus individual tone systems
Channel selectivity	Better than 75 dB
Receiver sensitivity, UHF	Better than -114 dBm. 0.45µV 1/2 EMK 12 dB SINAD (typically -117 dBm, 0.32 µV 1/2 EMK)
Receiver sensitivity, VHF	Better than -116 dBm. 0.35µV 1/2 EMK 12 dB SINAD (typically -117 dBm, 0.32 µV 1/2 EMK)
AF Power output	0.6 Watt nominal. 0.4 Watt for external speaker
Batteries (5/5/90)	
NiCd: 1000 mAh, rechargeable	<i>Operating time:</i> 1 Watt 10.8 hours · 2.5 Watt 8.8 hours · 5 Watt 6,9 hours
NiMH: 1500 mAh, rechargeable	<i>Operating time:</i> 1 Watt 16.2 hours · 2.5 Watt 13.2 hours · 5 Watt 10.3 hours
Li-ion: 1150 mAh, rechargeable	<i>Operating time:</i> 1 Watt 12.4 hours · 2.5 Watt 10.1 hours · 5 Watt 7.9 hours
Dimensions in mm (H x W x D) incl. battery	<i>With NiCd og NiMH (50 mm):</i> 167x67x32. <i>With Li-ion (28 mm):</i> 144x67x32
Weight incl. battery	<i>With NiCd:</i> 522 g · <i>With NiMH:</i> 540 g · <i>With Li-ion:</i> 442g
Temperature range	-25°C til +55°C
Tightness	Die-cast metal housing. Better than IP54, dust and spray ingression
Standards	ETS 300 086 / ETS 300 219 / EN 300 279 / IEC 60529 (IP54)
Accessories (Can also be used for NIROS TRX1012)	Batteries (NiCd, NiMH and Li-ion). Antennas. Chargers. Carrying cases