

Niros TRX 5104 & TRX 5116 ATEX

- flexible radio for reliable communication in extreme environments




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Niros TRX 5104/5116 is a compact and modern radio in user-friendly design for communication in extreme environments. Its available in all frequency bands, and has a programmable keypad and user interface. This makes it one of the most flexible radios on the market!

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- flexible radio for reliable communication in extreme environments

Compact radio in modern design

NIROS TRX 5104/5116 is a compact and modern radio with flexibility built in as standard. It provides easy and reliable communication under all conditions and in all environments—even the most extreme.

4 or 16 keys—choose as required

The radio is available in four and sixteen-key versions, covering many different usage situations. The keypad and display are backlit and have clearly legible figures, text and icons, making the radio easy to use, even in the dark.

NIROS TRX 5104/5116 has a large and easy-to-operate PTT button and sockets for connecting accessories. On top it has a programmable alarm key and function key, a red/green LED to indicate the transmit /receive status, and two rotary knobs, which can be used as “multi-choice” knobs or as channel selectors.

Programmable user interface

NIROS TRX 5104/5116 is menu-controlled and has an intuitive menu structure. Through a simple user interface, the keys can be customised with optional functions and settings as well as channel spacing and channel steps.

The user-optimised operating interface and four large keys make NIROS TRX 5104 extremely easy to use—even while wearing heavy gloves.

One radio for the whole frequency band


NIROS TRX 5104/5116 is available with several frequency bands—both UHF and 2m—and has advanced tone systems, such as CTCSS, DCS and many more.

Always ATEX!

With NIROS TRX 5104/5116 you will always have the highest ATEX classification. The radio and battery are certified for gas and dust and can be used in ATEX environments with a carrying case. It is also possible to change the battery in ATEX environments.

Technical specifications:

Frequency range:	UHF 403– 470 MHz 2m: 146–174 MHz
Modulation:	Programmable FM/PM
Number of channels:	999 simplex, semi-duplex, reverse frequency
Channel spacing:	12.5/20/25kHz, programmable per channel
RF power output:	Programmable per channel in three steps, 0.1-2 W
Tone systems:	CCIR, ZVEI, EIA, EEA, DTMF, CTCSS or DCS
Adjacent channel selectivity:	EN 300 086 and EN 300 113
Receiver sensitivity:	UHF: Better than 114 dB. 0.45 uV 1/2 EMK 12 dB SINAD 2m: Better than 116 dBm 0.35 uV, 1/2 EMK dB SINAD
LF output power:	400 mW
Battery:	Li-Ion battery
Battery Capacity:	1750 mAh
Operating time (5/5/90):	1 W: 12 hours 2W: 10 hrs
Dimensions:	130 x 60 x 35 mm (H x W x D), incl. battery
Weight, incl. Battery:	400g
Classification:	II 2G EEx ib IICT4 (gas) EEx ibD 21T135°C iP65 (dust)
Temperature range:	-20°C—+55°C (during use)
Standards:	EN 300 086-2, EN 300 219-2, EN 300 720-2, EN 301 178-2, EN 301 489-5, EN 60 950, IEC 60 529 (IP65), EN 50 014, EN 50 020, EN 61 241-0, EN 61 241-11



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