# NIROS TRX1012 ATEX, IIB 3.5 Watt, Gas & Dust

## Safety First and Foremost

**NIROS Communications A/S**
Innovative and customised
radio communication
for professionals

*CE 0539 Ex II 2 G DEMKO 05*
*ATEX 138956X EEx ib IIB T5-T6*
*II 3 D T85°C Dust Approved*

## NIROS TRX1012 ATEX - Safety First and Foremost

Many workplaces involved in the transport, manufacture and storage of inflammable and hazardous materials require maximum protection against accidental detonation.

Any hazardous material (liquid, gas or powder) can be ignited by a spark, a flame or a hot surface. Even a radio is capable of triggering an explosion in hazardous conditions.

**NIROS TRX1012 ATEX** is so highly graded that it is proof against explosion.

**No Compromises Regarding Security and Safety**
Radio communication, in areas where hazardous materials are present, calls for the correct equipment. Using a radio with inadequate specifications could have life-threatening consequences.

NIROS Communications A/S has a long experience in making intrinsically safe radios. As safety is given top priority, NIROS Communications A/S develops products, which meet the ATEX classifications.

**Unique Power Output**
The **NIROS TRX1012 ATEX** brings to the market a two-way radio, which combines high specification with high power output. Indeed, with a range of 1 to 3.5 Watt this radio is the most high-powered radio on the market.

**User-Friendly**
It is important that the radio is easy to operate, thus the keypad has four large keys for easy operation even while wearing heavy gloves. In addition, the top of the two-way radio features a prominent programmable alarm key.

The display, one line of text and two lines of symbols, is informative and easy to read. The information displayed includes volume and battery level. The luminous keys and backlit display help to ensure correct use of the radio, even in the dark. The radio is ergonomically designed and with its distinctive blue housing is clearly identifiable.

**Customised Functions**
With its microprocessor control the **NIROS TRX1012 ATEX** is highly versatile and can easily be programmed with new functions.
For more flexible operation the radio is equipped with tone systems such as CCIR, ZVEI and CTCSS.
For optimum performance the radio is housed in a die-cast metal housing providing added protection against shock and vibration.

## Technical Specifications for NIROS TRX1012 ATEX, IIB 3.5 Watt

| | |
|---|---|
| **Frequency range** | 68-88 MHz / 146-174 MHz / 403-470 MHz |
| **Bandwidth** | 20 MHz/4m, 28 MHz/2m, 20 MHz/UHF |
| **Number of channels** | 100 as standard |
| **Channel spacing** | 20/25 kHz programmable per channel. 12,5 kHz as option |
| **RF power output** | 1 to 3.5 Watt, individually programmable per channel |
| **Tone system** | CCIR, ZVEI and CTCSS |
| **Channel selectivity** | Better than 75 dB |
| **Receiver sensitivity, UHF** | Better than -114 dBm, 0.45 µV 1/2 EMF 12 dB SINAD (typically -117 dBm, 0.32 µV 1/2 EMF) |
| **Receiver sensitivity, VHF** | Better than -116 dBm, 0.35 µV 1/2 EMF 12 dB SINAD(typically -117 dBm, 0.32 µV 1/2 EMF) |
| **AF power output** | Peak power 0.6 Watt. 0.35 Watt nominal. 0.3 Watt for external speaker microphone |
| **Battery (5/5/90)** | NiCd: 1000 mAh, rechargeable<br>Battery operating time 1 Watt: 10.8 hours. 2.5 Watt: 8.8 hours. 3.5 Watt: 7.0 hours |
| **Dimensions with battery in mm (H x W x D):** | 167x67x32 |
| **Weight with battery** | 580 g |
| **Temperature range** | -25°C to +55°C |
| **Housing category** | Die-cast cabinet. Better than IP54, protected against dust and splash water |
| **Standards** | EN 300 086-2, EN 300 219-2, EN 300 720-2, EN 301 178-2,<br>EN 301 489-5, EN 60 950, IEC 60529 (IP54), EN 50 014, EN 50 020, EN 50 281-1-1 |
| **Classifications** | CE 0539 Ex II 2 G DEMKO 05 ATEX 138956X EEx ib IIB T5, Tamb < 55°C, EEx ib IIC T6, Tamb < 40°C<br>II 3 D T85°C Dust Approved |
| **Accessories** | Antennas, ATEX chargers, ATEX carrying cases, ATEX remote speaker microphone and<br>ATEX communication systems for helmets and hearing protectors (e.g. SAVOX) |

Fladsø Grafisk +45 55 96 04 00 · 06.2005 Version 5