

NIROS TRX1012 ATEX, IIC 2 Watt, Gas & Dust Safety First and Foremost



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



CE 0539 II 2 G DEMKO 05
ATEX 138956X EEx ib IIC 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 2 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, IIC 2 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 2 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 Battery operating time 1 Watt: 10.8 hours. 2 Watt: 9.0 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, EN 301 489-5, EN 60 950, IEC 60529 (IP54), EN 50 014, EN 50 020, EN 50 281-1-1	
Classifications	CE0539 II 2 G DEMKO 05 ATEX 138956X EEx ib IIC T5, Tamb < 55°C, EEx ib IIC T6, Tamb < 40°C II 3 D T85°C Dust Approved	
Accessories	Antennas, ATEX chargers, ATEX carrying cases, ATEX remote speaker microphone and ATEX communication systems for helmets and hearing protectors (e.g. SAVOX)	