

# INDUSTRIAL RADIO MODEM ITR 433



## Type

The ITR433 is an industrial radio modem operating in the frequency band of the 433 MHz without license or prior declaration. It is used for the remote control, the watching, the telemetering or the transfer of data in applications where the wiring is delicate and costly: dams, wheather forecast stations, rotating machines, or process in move ( crane, vehicle, robotics ...)

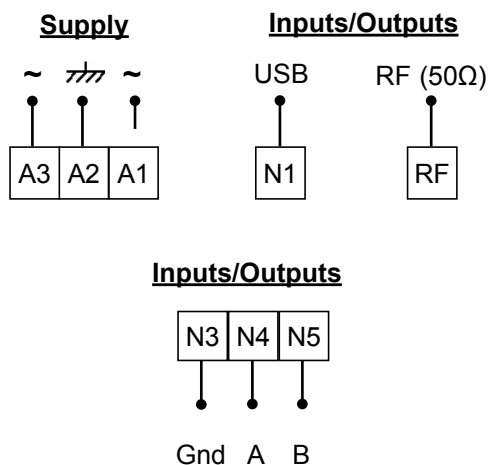
## Environment

- Operating temperature: 0°C to +55°C.
- Storage temperature: -25°C to +70°C.
- CE marking

## Functions

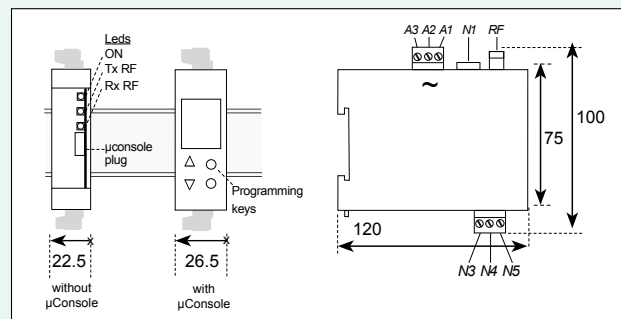
- RS485 and USB interface.
- 433 MHz. frequency band.
- Use without license.
- Rated power 10mW.
- Resistant and industrial design.
- Universal (switching) power supply.
- Configuration by µConsole.

## Wiring



## Dimensions

**Dimensions:** (H x L x D) 75 x 22.5 x 120 mm  
**With µConsole:** 80 x 26.5 x 130 mm



- Housing** : Self extinguishing, of black UL94V0 ABS.
- Connectors** : Power supply and RS485:  
 Plug-off connectors for screwed connectings (2.5mm<sup>2</sup>, flexible or rigid)  
 USB: Type B  
 RF: SMA Reverse
- Protection** : Case / terminals: IP 20

# Technical features

## ► Inputs / Outputs

### • USB

Connector	Type B
Speed	1200 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 bauds
Protocole	8 bits, programmable parity

### • RS485

Type	3 wire
Speed	2400 / 4800 / 9600 / 19200 / 57600 bauds (configurable by µConsole)
Data	8 bits (without parity), or 9 bits (with parity)
Parity	Configurable by µConsole.
RS 485 polarisation	Configurable by jumpers.

### • Radio

Frequency	433 to 434 MHz (16 channels of 100kHz)
Radio flow:	10 kbauds
Emission power	10 dBm (10mW)
Reception sensitiveness	-104 dBm
Aerial impedance	50Ω
Aerial connector	Type SMA Reverse

## ► Supply

Universal power supply  
20...270 VAC / 20...300 VDC

## ► Wiring

With detailed manual, provided with the instrument

*This appliance is designed for industrial applications. It has to be installed in an electrical cabinet, or equivalent.*

# Coding

## Type:

**ITR433** Industrial 433 MHz radio modem  
with plug-off micro console, for the configuration

## Aerials:

ITR433M1



Not suitable for a metallic switchbox  
Not suitable for outdoor use  
Reach in free field: 1km  
No aerial cable

ITR433M2



For screwing on the switchbox (2m cable provided)  
Not suitable for outdoor use  
Reach in free field: 1km  
Longer cable available on request

ITR433M3



For screwing on the switchbox (2m cable provided)  
Suitable for outdoor use  
Reach in free field: 1km  
Longer cable available on request

ITR433M4



For screwing on the switchbox (2m cable provided)  
or on a mast  
suitable for outdoor use  
Reach in free field: 2km  
Longer cable available on request

ITR433M5



Directional aerial  
For screwing on the switchbox (75cm cable provided) or on a mast  
Suitable for outdoor use  
Reach in field up to 10km  
Longer cable available on request



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