

INDUSTRIAL RADIO MODEM

ITRv433

Type

The ITRv433 is an industrial radio modem operating in the frequency band of the 433 MHz without any license or prior declaration required

It is used for the remote control, the watching, the telemetering or the transfer of data in applications where the wiring is difficult and costly: dam, wheater forecast stations, rotating machines, or process in move (crane, vehicle, robotics ...)

Environment

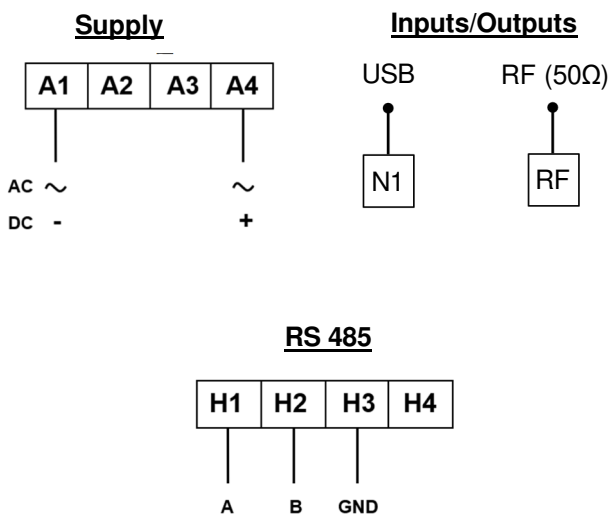
- Operating temperature: 0°C to +60°C.
- Storage temperature: -20°C to +70°C.
-  Marking



Functions

- RS485 and USB interface.
- Frequency band 433 MHz.
- License free use.
- Rayed power 10mW.
- Robust and industrial design.
- Universal power supply.
- Configuration by tactile μ Console.

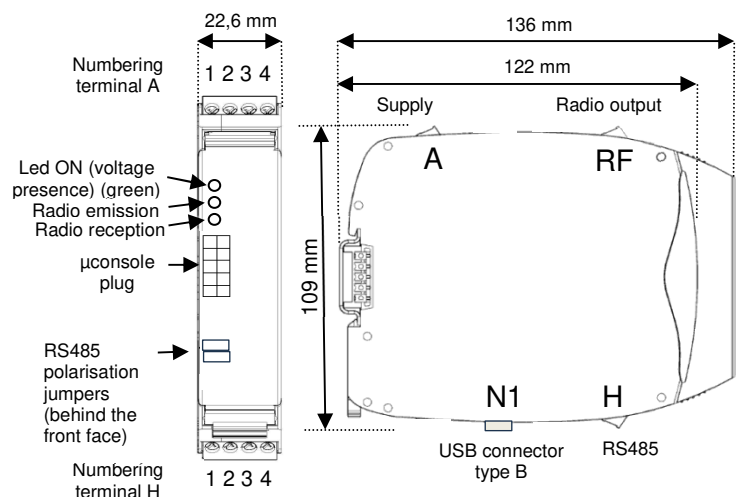
Connectings



Dimensions

Dimensions (H x L x D) : 109 x 22.6 x 122 mm

With μ Console: 109 x 22.6 x 136 mm



Housing: Self-extinguishing case of black UL94V0 PA66.

Connectors: Supply RS485: Removable terminal blocks for screwed connections (2.5mm², flexible or rigid)
USB: Type B
RF: SMA Reverse

Protection: Housing / terminals: IP 20

Technical features

Inputs / Outputs

• USB

Connector	Type B
Baud rate	1200 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 bauds
Protocol	8 bits, parity programmable

• RS485

Type	3 wire
Baud rate	2400 / 4800 / 9600 / 19200 / 57600 bauds (configurable with the µConsole)
Data	8 bits (no parity), or 9 bits (with parity)
Parity	Configurable with the 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	SMA reverse type

Supply

Universal power supply:

20 to 250 V AC / 20 to 250 V DC

Connectings

With detailed manual, provided with a QR code on the appliance label.

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



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Coding

Type:

ITRv433

433 MHz industrial radio model with clip-on micro-console for the configuration.

Aerials:

ANTR-M1



Not suitable for a metallic cabinet.
Not suitable for outdoor use.
Free field reach 1km
No aerial cable

ANTR-M2



For screwing on the cabinet (2-meter long cable).
Not suitable for outdoor use.
Free field reach 1km
Longer cable available on request.

ANTR-M3



For screwing on the cabinet (2-meter long cable).
Suitable for outdoor use.
Free field reach 1km
Longer cable available on request.

ANTR-M4



For screwing on the cabinet (2-meter-long cable) or on a mast.
Suitable for outdoor use.
Free field reach 2km
Longer cable available on request.

ANTR-M5



Directional aerial
For screwing on the cabinet (75-centimeter long cable) or on a mast.
Suitable for outdoor use.
Free field reach 10km
Longer cable available on request.

Your representative