Inveo Sp. z o.o.

WebSensor HT

Instruction Manual

Overview

Purpose of the device

The WebSensor HT devices are designed to cooperate with Virtus, Daxi, IQIO and Hero Web Sensor modules.

Changelog

1.1 23rd of June 2025

- Manual revision 1.1

1.0 28th of March 2025

- Manual revision 1.0

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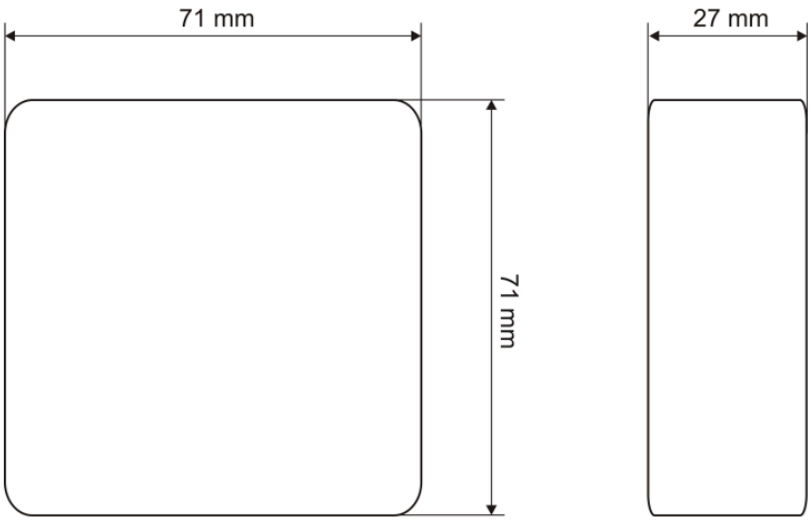
Device construction

Power supply

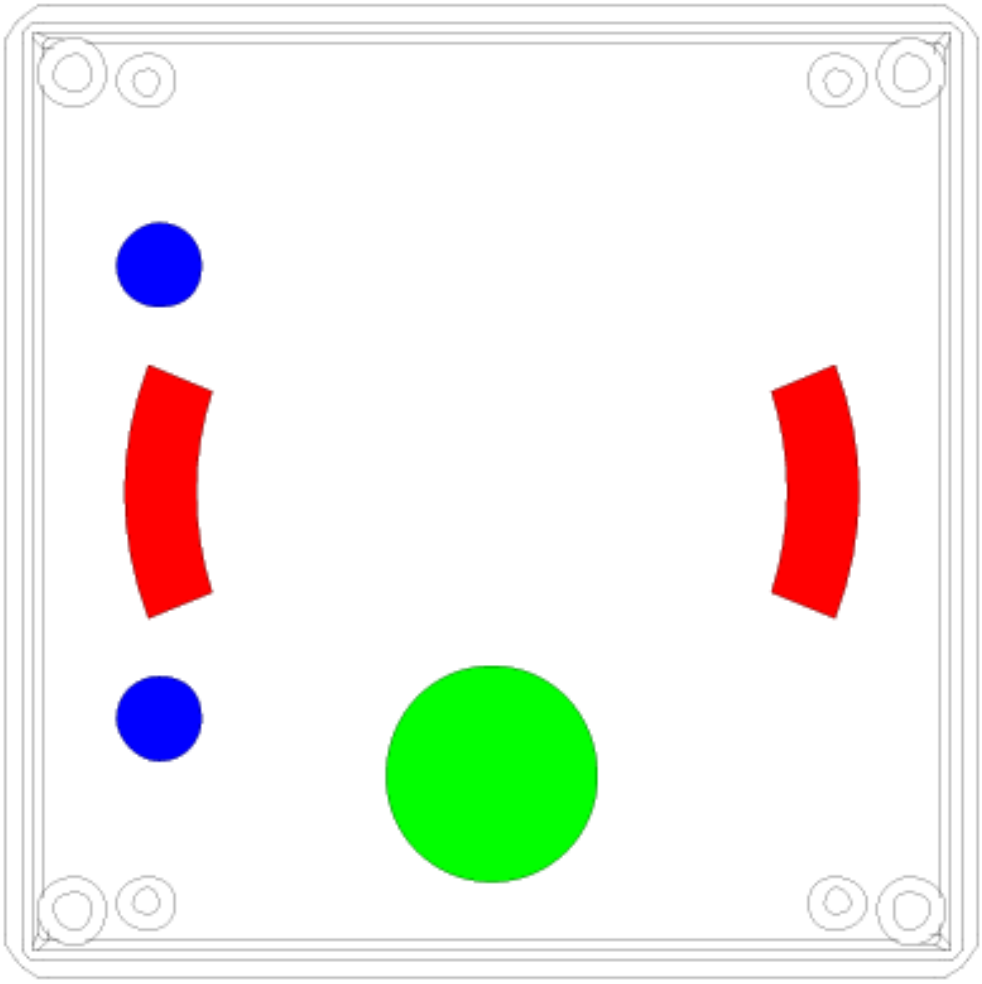
The sensors are intended to be powered directly from Virtus, Daxi, IQIO or Hero modules.

Dimensions



Enclosure

The mounting openings in the device enclosure allow the sensors to be mounted directly to a wall or in an 19 inch rack cabinet.



The colour green indicates the opening intended for the communication and power wiring.
Blue colour indicates openings used when mounting to a rack cabinet.
The openings marked with red allow the module to be installed on a wall with an expansion anchor. Its position can be adjusted.

Technical characteristics

	WebSensor HT
Temperature sensor	DS18B20 mounted on the PCB **Measured temperature range:** from -55°C to +125°C (-67°F to +257°F) **Precision in the range -10°C and +85°C:** ± 0.5°C **Precision in the range -55°C to +125°C:** ± 2°C
Humidity sensor	Humidity sensor mounted on the PCB **Measured humidity range:** 0÷100% RH **Precision:** ± 3%

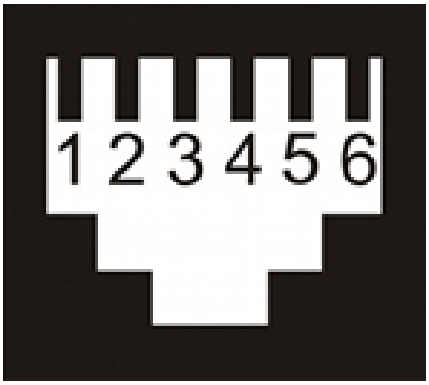
Connecting sensors

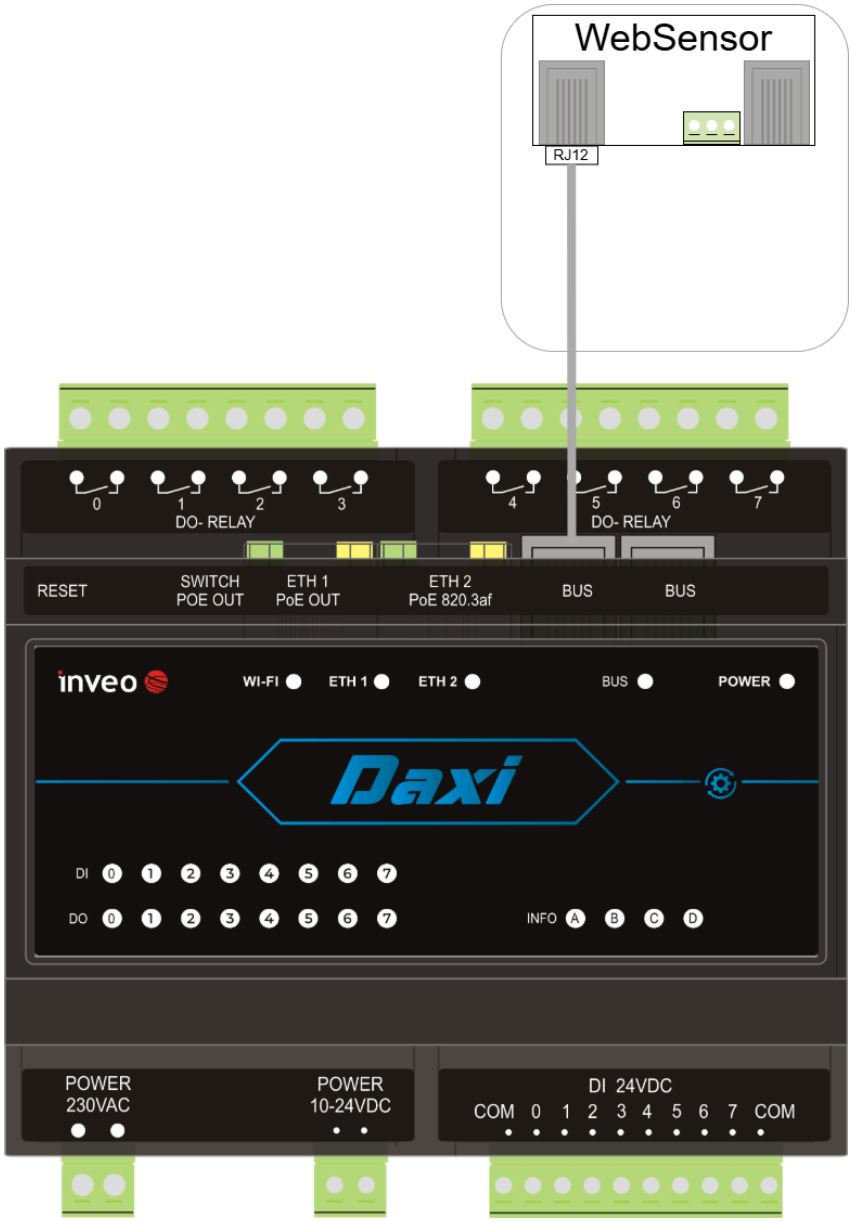
The WebSensor can be connected to a bus using a two- or three-wire (Virtus, IQIO, Hero) cable with a maximum diameter of 1mm2 or with RJ12 connectors (Virtus, Daxi).

The sensor communicates with a bus, that's why additional sensors can be connected to make the bus longer and read the measured values from several sensors.

The RJ12 **Bus** connectors and the three-way screw terminals are connected in parallel.

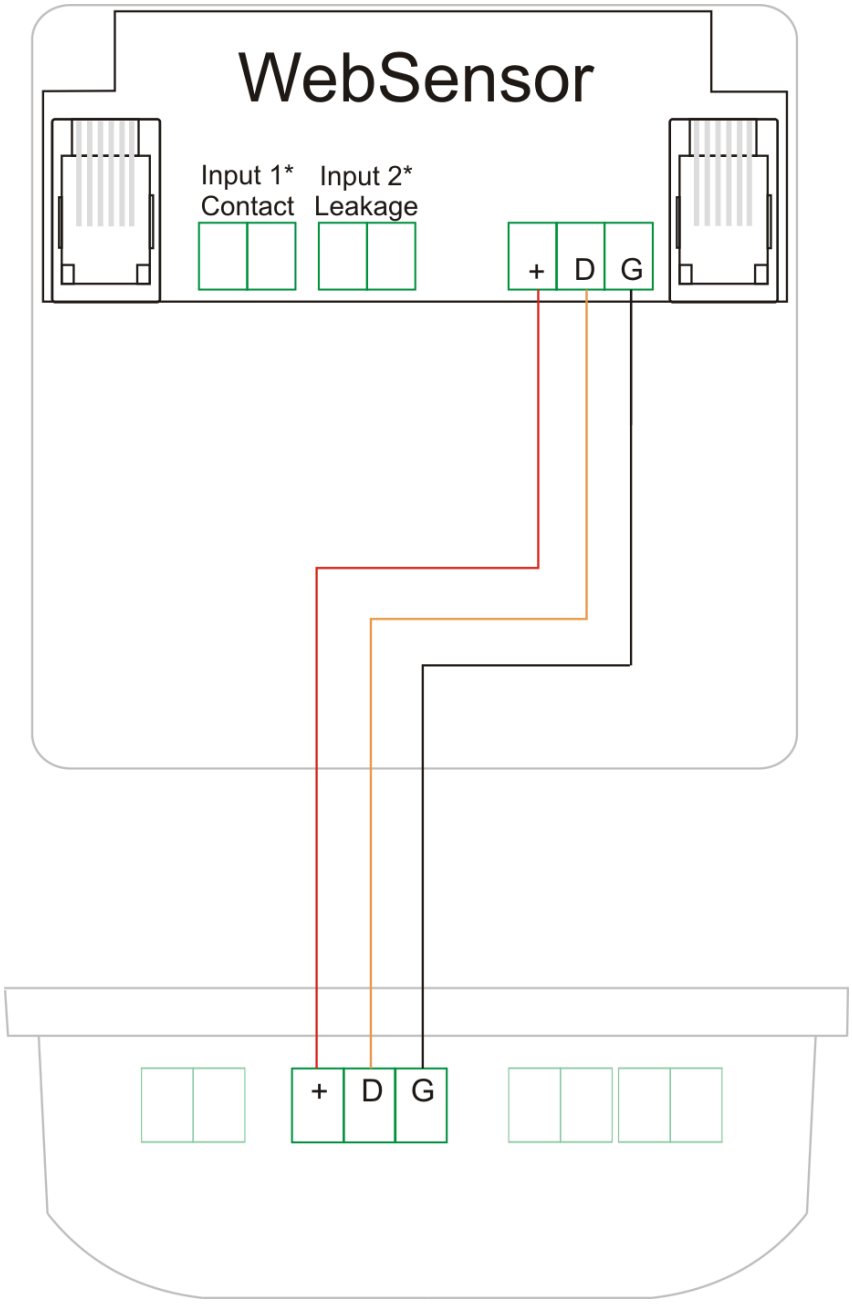
Virtus, Daxi – RJ12 connector pinout





Terminal No.	WebSensor
1, 2	VCC
3, 4	Data
5, 6	GND

Hero or IQIO



Hero or IQIO	WebSensor
BUS G	GND
BUS D	Data
BUS +	VCC/NC

Warranty and manufacturer's liability

> **Warning**
>
> **The manufacturer provides a two-year warranty for the device and post-warranty service for a period of 10 years from the date of introduction of the device to the market. The warranty covers all material and production defects.**

The manufacturer undertakes to respect the warranty agreement, if the following conditions are met:

- All repairs, changes, expansions and device calibrations are carried out by the manufacturer or an authorized service center,
- The power supply system meets the applicable standards,
- The device is operated in accordance with the suggestions presented in this manual,
- The device is operated in accordance with its intended purpose.

The manufacturer assumes no responsibility for consequences resulting from improper installation, improper use of the device, failure to comply with the instruction manual, and repairs made by unauthorized personnel.

> **Warning**
>
> **The device contains no user serviceable parts inside.**

Storage, operation and transport conditions

The device should be stored in enclosed rooms, where the atmosphere is free from vapours and corrosive substances:

- Environment temperature from -30°C to +60°C (-22°F - 140°F),
- Humidity from 25% to 90% (condensation unacceptable),
- Atmospheric pressure from 700 to 1060 hPa.

The device is intended to operate in the following conditions:

- Environment temperature from -10°C do +55°C (14°F - 131°F),
- Humidity from 30% to 75%,
- Atmospheric pressure from 700 to 1060 hPa.

Recommended transport conditions:

- Environment temperature from -40°C do +85°C (-40°F - 185°F),
- Humidity from 5% to 95%,
- Atmospheric pressure from 700 to 1060 hPa.

Installation and device operation:

- The module should be operated in accordance with recommendations provided later in this manual.

Disposal and decommissioning

In an event the device needs to be decommissioned (eg. after its intended life period is surpassed), it is recommended to contact the manufacturer or his representative, who are responsible to respond appropriately, i.e., to collect the device from the user. The user can alternatively contact companies specializing in electronic device or computer equipment disposal and/or decommissioning. Under no condition should the device be placed with other waste.