HERO

Web Sensor

Communication with the module is done over the LAN.

The following options for reading measured values are available:

- using built in WWW server via any web browser,
- from the windows / linux command line.
- HTTP protocol
- MQTT protocol
- e-mail
- SNMP protocol
- via syslog
- MODBUS TCP protocol

The module is equipped with an LED display on which measured values can be presented.

Technical specification:
Power supply PoE: 33-57V POE IEEE 802.3af
Power supply DC: 12-24V DC
Power consumption: 1,5W

Input:

Input type: 1-wire bus
Supported sensors: temperature / humidity / digital inputs

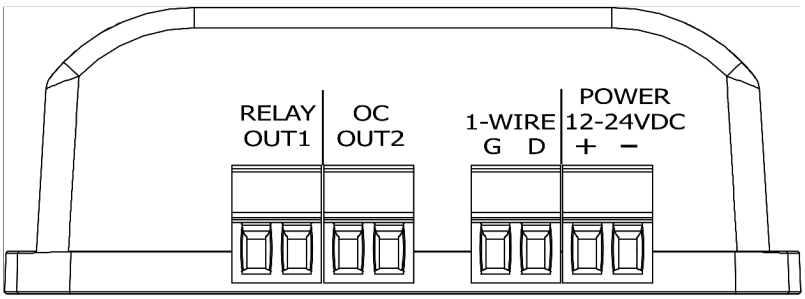
Outputs:

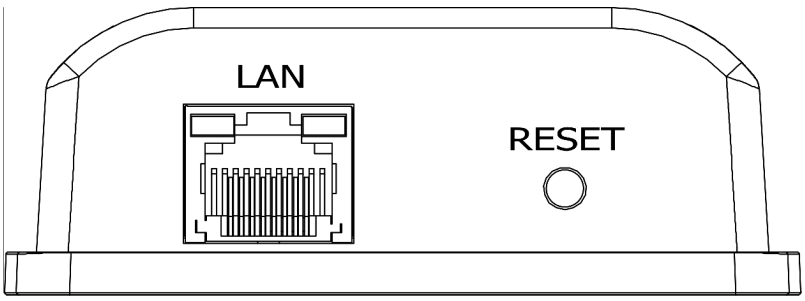
OUT1:
Output type: relay
Maximum working voltage: 250V AC,
Maximum load current of relay 8A
NO output (normally open),
Switching time: 1ms,
Switch-off time: 5ms,
Operating mode: bistable, astable, monostable

OUT2:
Output type: transistor OC
NO output (normally open),
Switching time: <1ms,
Switch-off time: <1ms,
Operating mode: bistable, astable, monostable

LAN:

Ethernet 1x10Mbps, RJ45





Module configuration

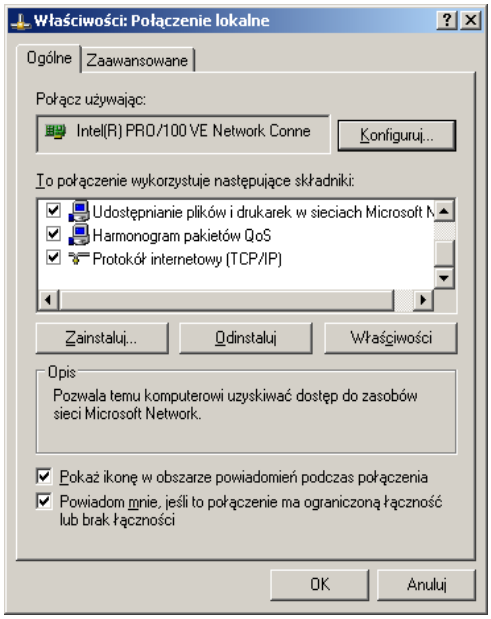
If using the module for the first time it is needed to configure it as shown below

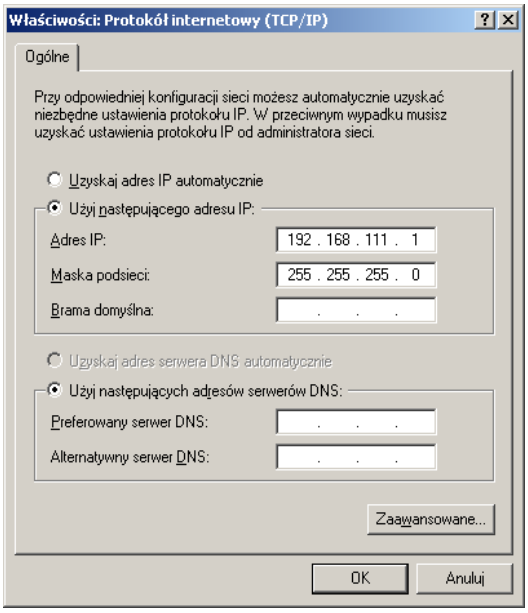
Quick network configuration by Inveo Discoverer 6

Inveo Discoverer from version 2.0 allows to configure the network settings of Inveo devices without having to change the subnet of the computer.
The program can be downloaded from the website http://inveo.com.pl/download
The program automatically detects connected devices on the network and allows you to give them the appropriate addresses or enable DHCP.

. Changing the PC setting for module configuration

After connecting the module to the network there is a need to change the PC setting. In order to do that navigate to: Start->Control Panel->Network connections.
Then right click on the current network connection and click „Properties".
The configuration screen as shown on left below should be visible on the screen

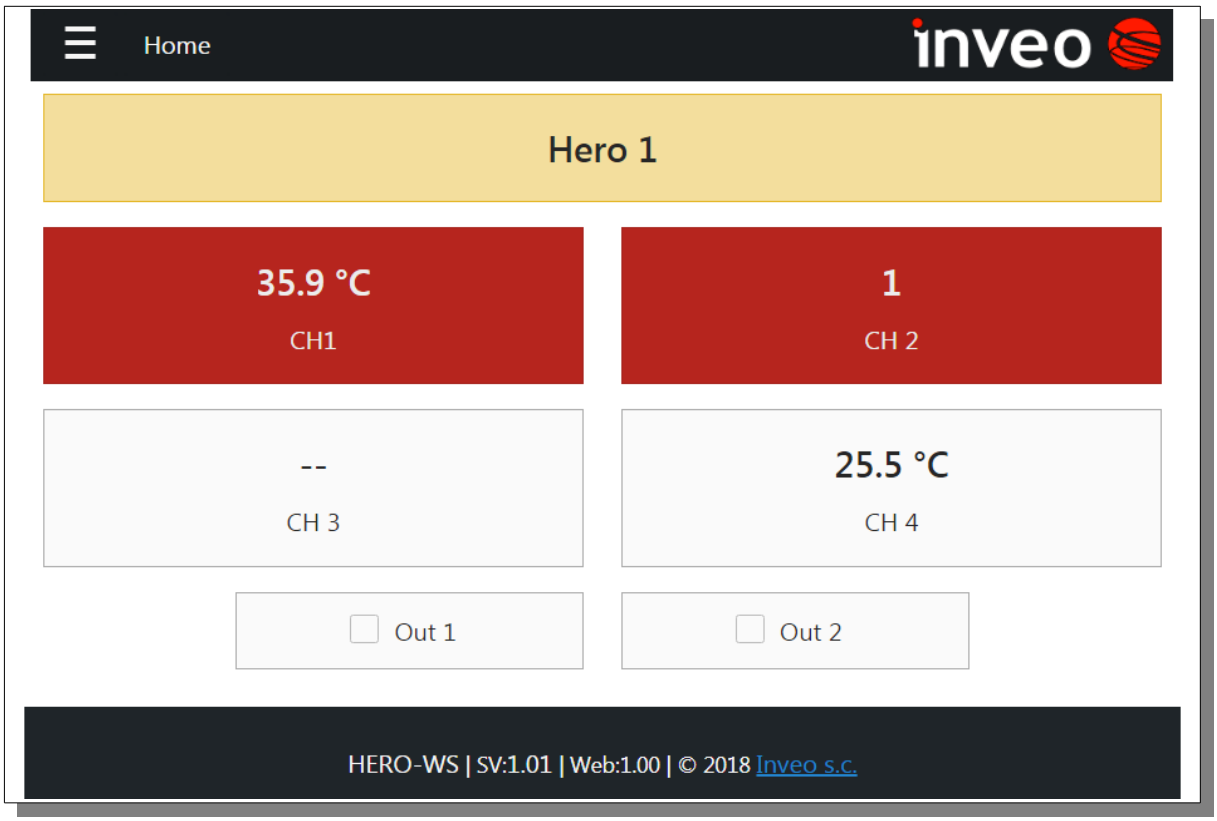




Tick the box „Use the following IP address" and enter:
IP address: **192.168.111.1**
Subnet mask: **255.255.255.0**
The rest of the setting can be left blank.
Press OK to accept the changes.
Launch the web browser and enter the address: **192.168.111.15.**

The module's web interface

After logging in correctly to the device, the user can check the current status of the outputs and the values measured by the sensors on individual channels.
On the home page, alarm states and warning states are also signaled.
The window with the temperature highlighted in yellow means the warning state while the window highlighted in red is the alarm state.



Sensor names can be changed in the tab Menu → Sensors, names of outputs in the tab Menu → Outputs. The maximum length of the text is 15 characters. The name of the module "Hero 1" can be changed in the tab Menu → Administration → module name.

The LED display can show the measured values in the form:
-temperature:
t 1 24.3
t2 -4.3
-humidity:
rh 1 47.1
rh3 23.4
-input status:
in 1 on
in2 oFF
-output status:
out 1 oFF
out2 on

NEW!!!

HERO WEB SENSOR

Remote monitoring in IT environments

SENSORS FOR HERO

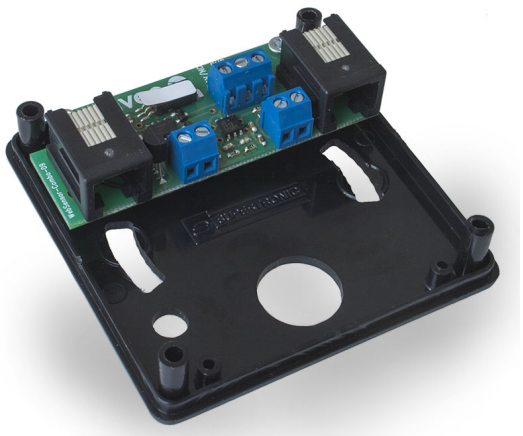
MQTT protocol | LAN | MODBUS | POE 802.3AF | 4 1-Wire sensors | 1 RELAY output | 1 OC output

POLISH PRODUCT

WebSensor T

WebSensor HT

WebSensor COMBO



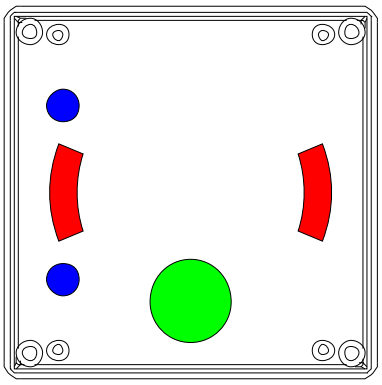
Temperature:
Applied temperature sensor: DS18B20
Range of measured temperatures: -55°C do +125°C
Accuracy: ± 0.5 ° C in the temperature range -10°C to +85°C
Accuracy: ± 2 ° C in the temperature range -55°C to +125°C

Humidity:
Applied humidity sensor: HIH5031
Range of measured humidity: 0÷100% RH
Accuracy: ±3%
Operating range: -40÷85°C

5 Module construction

5.1 Housing

Mounting holes in the housing are designed for mounting the sensors on the wall and in the 19-inch cabinet.



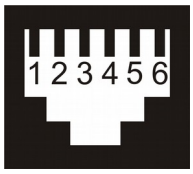
With the green colour marked a hole for the communication/power cable
The holes for attaching the enclosure to the telecommunications cubicle are marked with blue color.
Holes marked red are for mounting on pegs to the wall and for height adjustment.

5.2 Connection of sensors

Connection of the bus to the sensor can be made with a 2-wire cable with a maximum cross-section of 1mm2 or with RJ12 connectors.

Description of RJ12 connector pins

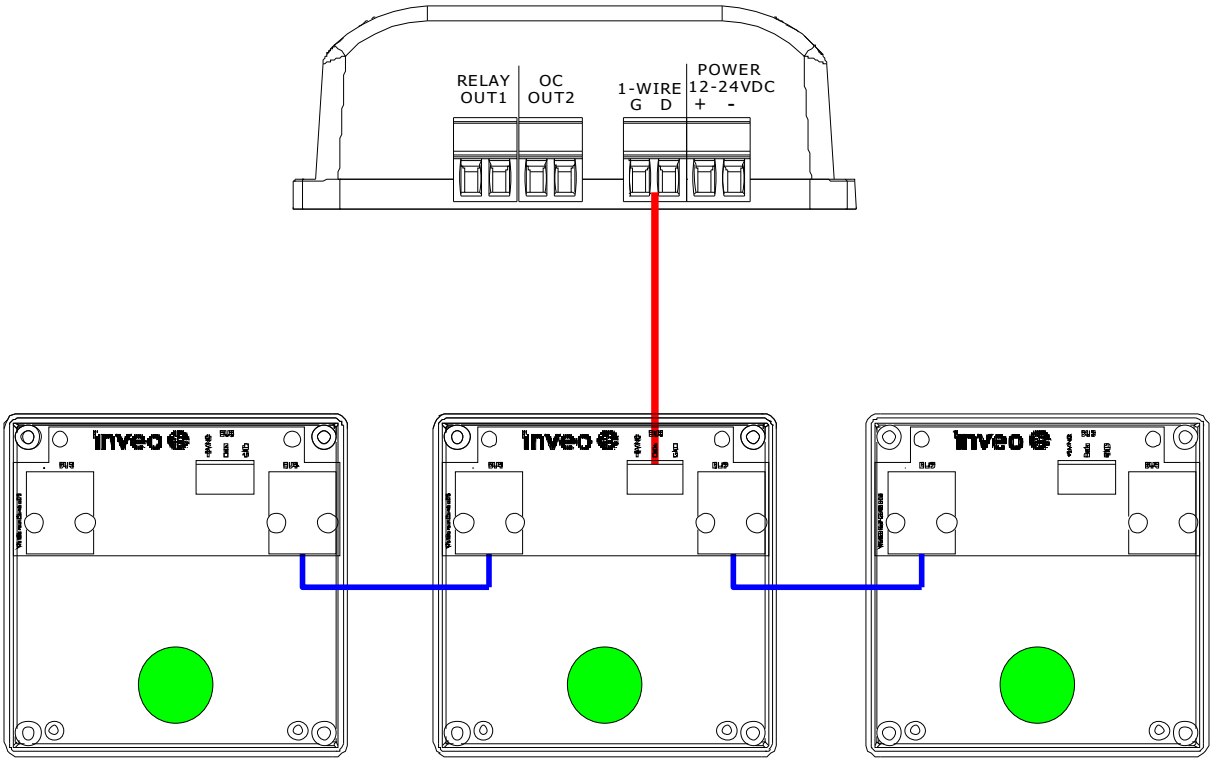
The number of the pin	Name of the pin
1,2	+5V
3,4	Data
5,6	GND



Connecting the sensor to the HERO module and the NANO Temperature Sensor:

HERO and Nano Temperature Sensor module	WebSensor-HT
Connector 1-Wire G	GND
Connector 1-Wire D	Data

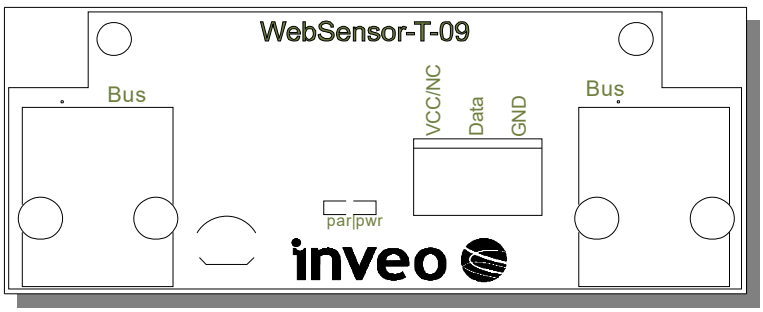
An example of how to connect sensors to the HERO module



5.3 WebSensor-T

The WebSensor-T enables measurement of:

- temperature - the sensor is mounted on a PCB

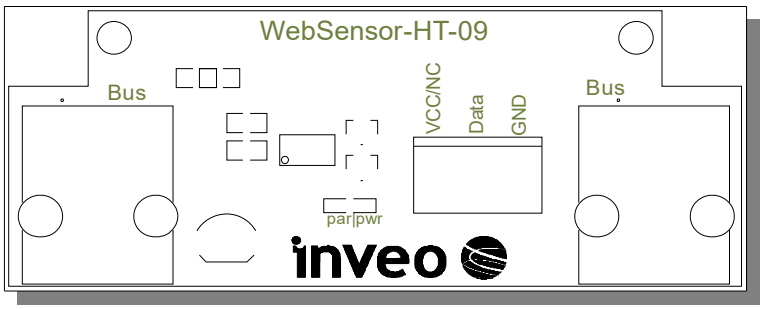


Applied sensor: DS18B20
Range of measured temperatures: -55°C do +125°C
Accuracy: ± 0.5 ° C in the temperature range -10°C to +85°C
Accuracy: ± 2 ° C in the temperature range -55°C to +125°C

5.4 WebSensor-HT

The WebSensor-HT allows to measure:

- temperature - the sensor is mounted on a PCB
- relative humidity - a sensor mounted on a PCB



Applied temperature sensor: DS18B20
Range of measured temperatures: -55°C do +125°C
Accuracy: ± 0.5 ° C in the temperature range -10°C to +85°C
Accuracy: ± 2 ° C in the temperature range -55°C to +125°C

Applied humidity sensor: HIH5031
Range of measured humidity: 0÷100% RH
Accuracy: ±3%
Operating range: -40÷85°C

5.5 WebSensor-COMBO

The WebSensor-Combo allows to measure:

- temperature - the sensor is mounted on a PCB
- relative humidity - a sensor mounted on a PCB
- digital input CONTACT - it is possible to connect eg a door opening sensor
- digital input LEAKAGE - it is possible to connect a flood sensor