

# TPHP LAN

## Intelligent Ethernet sensor for temperature, humidity and dew point

Temperature and humidity sensor connected to DC and DSC digital clock and to the DP and DO text display panels via the Ethernet.



- Measures temperature within the range of -40 to +123.8 °C
- Measures relative humidity within the range of 0 % to 100 %
- Possibility of temperature and humidity display on more than one device at the same time
- Data transfer via TCP/IP protocols (10/100 Ethernet).
- WEB based Configuration.
- Sensor "SD TPH", IP 54
- Sensor is connected by a silicon cable with high temperature resistance.
- Powered from 5 V to 30 V (Wall-plug adaptor included).
- Mounting onto DIN 35 mm rail on request.

Engineering data	TPHP LAN
Scope of measured temperatures	- 40°C to +123,8°C
Measuring accuracy	±0.5 °C within the range of -10 °C to +85 °C; otherwise ±2 °C
Power supply	4 – 6 VDC (max. 230mA)
Operating temperature	-40 .to.. +85°C
Humidity range	0 % to 100 %
Resolution	1% RH
Protection degree	IP 54
Dimensions	46 x 16 x 10 mm
Weight	approx. 80 g (without sensor)
Sensor connection cable	3m length, (up to 20 meters upon request), silicon
Connectors	RJ45, Tbase 10/100 Ethernet coaxial 3.8 x 1.3 mm, powering (+ pole in the middle)
Indication	green LED – power supply yellow LED – indicates established TCP/IP connection. Link LED, Activity LED on the RJ45 connector
Default parameters of the network	IP address 192.168.1.254 mask: 255.255.255.0 gateway: 0.0.0.0

## Change to the thermometer IP address:

- setting is carried out using the Ethernet Configurator software (Downloads <http://www.papouch.com/cz/shop/product/tme-ethernetovy-teplomer/ethernetconfigurator.zip>)
- following the start all thermometers connected to the LAN local network and the respective IP addresses are displayed in the upper window
- choose the IP of the thermometer you want to set and depress the Set Device button
- edit the IP address or other contingent parameters in the bottom window
- by depressing the Set button send away the actual setting data to the thermometer.

## Reset of thermometer:

Reset is carried out using the following procedure:

- disconnect power supply from the device
- open the electronic box by screwing off screws on the sides
- insert the shortcircuiting jumper in the inside of the device and keep it short-circuited
- switch the power supply on and wait for 10 seconds
- the process of resetting is now finished

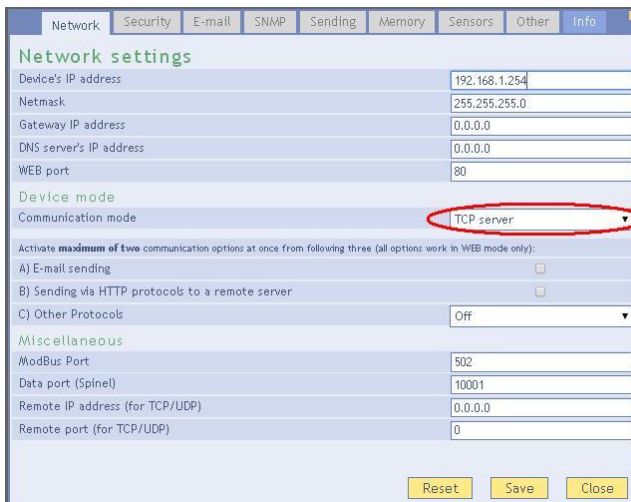
## Set communication mode to TCP Server:

- after setting the TPHP LAN's IP address, you can connect to it by any WEB browser. WEB interface is the primary means to configure the thermometer. (For example by entering <http://192.168.1.254/> - for default IP address.)
- to enter settings, push "Settings" button in upper right corner of TPHP LAN main WEB



*Settings button on the main page*

- set communication mode to TCPServer
- factory device default set



The screenshot shows a web interface for network settings. The 'Network settings' section includes fields for Device's IP address (192.168.1.254), Netmask (255.255.255.0), Gateway IP address (0.0.0.0), DNS server's IP address (0.0.0.0), and WEB port (80). The 'Device mode' section shows 'Communication mode' set to 'TCP server', which is circled in red. Below this, there are checkboxes for 'A) E-mail sending' and 'B) Sending via HTTP protocols to a remote server', and a dropdown for 'C) Other Protocols' set to 'Off'. The 'Miscellaneous' section includes fields for ModBus Port (502), Data port (Spinel) (10001), Remote IP address (for TCP/UDP) (0.0.0.0), and Remote port (for TCP/UDP) (0). At the bottom, there are 'Reset', 'Save', and 'Close' buttons.

## Setting the DC or DSC digital clock:

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- the digital clock has to have its own IP address set manually or using DHCP
- enter the clock main MENU and move to SW version, hold long both push-buttons placed on the frame or button DISP on the IR controller - service menu will be entered
- set the C5 item of the service menu to 7 and open the submenu
- set gradually the 4 octets of the thermometer IP address in the submenu and confirm the setting
- close the service menu
- within approx. 3 minutes the digital clock should start displaying the measured temperature
- for both temperature sensors can be set the correction of measured temperature in range  $-9 \div +9^{\circ}\text{C}$  ( $^{\circ}\text{F}$ ) in the submenu of the P12 main menu item
- enter the submenu by pushing the SET button on the IR remote controller or by long push of the left button on the clock frame when the P12 item is displayed
- the c1: 0 is displayed, correction value for temperature 1 s blinking, the value can be changed using +- buttons on the IR controller or by pushing the right button on the frame
- after pushing the right arrow button on the IR controller or left button on the frame the c2: 0 is displayed, correction value for temperature 2 is displayed, value can be changed the same way as in previous point
- saving the correction values and return to the main menu item P12 is done by pushing the OK button on the IR controller or by long push of the left button on the frame

### Notice:

For detailed information visit the manufacturer's website [www.papouch.com](http://www.papouch.com)

## Warranty and repair

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- device meets the following standards:
  - IEC 60950-1 ed. 2 - with respect to electrical safety
  - EN 55022 class B, EN 55024 - with respect to EMC
- The warranty does not apply to defects caused by
  - Improper handling or intervention
  - Chemical effects
  - Mechanical damage
  - The intervention of external events (natural disaster, etc.)

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