

# **COMET P8552 Web Sensors User Manual**

Home » COMET » COMET P8552 Web Sensors User Manual





Web Sensor with PoE – two channels with binary inputs
QUICK START MANUAL
P8552 P8652 P8653

### **Contents**

- 1 PRODUCT DESCRIPTION
- **2 INSTALLATION AND OPERATION**
- **3 DEVICE SETUP**
- **4 ERROR STATES AND**

**TROUBLESHOOTING** 

- **5 SAFETY INSTRUCTIONS**
- **6 Technical Specification**
- 7 Binary inputs
- **8 External Probes**
- 9 Device Connection Procedure
- 10 Documents / Resources
  - 10.1 References

## PRODUCT DESCRIPTION

Web Sensors P8552, P8652 and P8653 with Ethernet connection are designed to measure temperature and relative humidity of the air.

The devices are equipped with two connectors for connection of the temperature and humidity external probes and three binary inputs for two states signals. The dry contact or two-state voltage signal can be connect to the binary input. The first binary input of the sensor P8653 is intended for the flood detector LD-81 connection. The devices are powered from an external power supply adapter. Web Sensors P8652, P8653 supports also Power over Ethernet (PoE).

Measured values can be read and then processed using an Ethernet connection. The following formats of Ethernet communication are supported: www pages with user-design possibility, Modbus TCP protocol, SNMPv1 protocol,

SOAP protocol and XML. The instrument may send also a warning message if the measured value exceeds adjusted limit. The messages can be sent up to 3 e-mail addresses or to Syslog server and can be sent by SNMP Trap too. The alarm states are also displayed on the websites. The device setup can be made by the TSensor software (see <a href="https://www.cometsystem.com">www.cometsystem.com</a>) and using the www interface.

Туре	Measured v alue	Construction	PoE
P8552	T + RH + BI N	Two connectors for external probes and terminal block for three binary inputs	no
P8652	T + RH + BI N	Two connectors for external probes and terminal block for three binary inputs	yes
P8653	T + RH + BI N	Two connectors for external probes and terminal block for LD-81 detector and two binary inputs	yes

T...temperature, BIN... binary input, RH...relative humidity

## **INSTALLATION AND OPERATION**

The devices are designed for wall mounting with two screws or bolts. Pay attention to the location of the device and probe. Incorrect choice of working position could adversely affect accuracy and long-term stability of measured values. The Web Sensor with attached DSRH/C or DST/C probe install always vertically with the sensor cover downwards. Devices don't require any special operation and maintenance. We recommend you periodic calibration for measurement accuracy validation.

## **DEVICE SETUP**

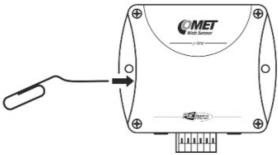
Contact your network administrator to obtain necessary information for the device connection into the network (IP address, default gateway, subnet mask) and check if there is no IP address conflict when you connect the device into network for the first time. IP address of each device is set by manufacturer to 192.168.1.213. Install the latest version of TSensor to your PC, connect the Ethernet cable and connect the power supply (see "Device connection procedure" on the other side of this data sheet).

Run the configuration software TSensor. Set the "Ethernet" communication interface and press "Find Device" button. According to MAC address (see device label) select device for configuration and by "Change IP Address" button set new address according to network administrator instructions. Gateway IP address may not be entered if you want to use the device only in local network. After changing of IP address the device is restarted and new IP address is assigned. Restart of the device takes about 10 seconds.

The device setup can be made by the web interface. Main page will be shown when you insert device address into address bar of your web browser. Access to device setup is possible via tile Settings (see user manual).

To restore the Web Sensor to the factory default settings use the button inside the device.

Turn of the power supply and press the button (see picture). Turn on the power supply and keep the button pressed for 10 sec.



Device continuously checks its state during operation and if an error appears, the device sends the error message. The detailed description of the error messages is given in the user manual Chapter "Troubleshooting".

## **SAFETY INSTRUCTIONS**

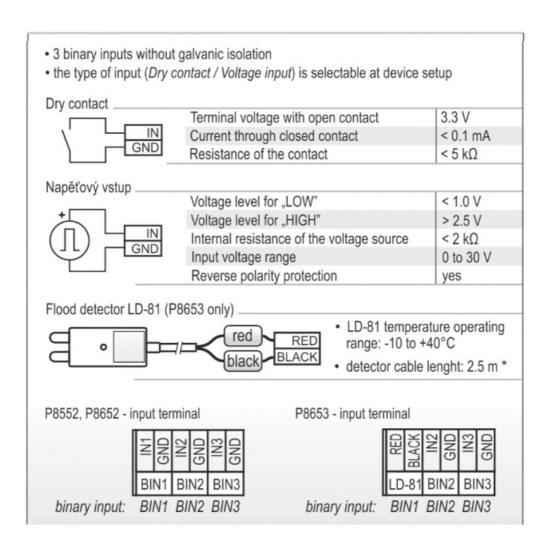
• Don't connect or disconnect thermometers while power supply is on.

- Installation, electrical connection and commissioning should be performed by qualified personnel only.
- Use the power adapter according to technical specifications and approved according to relevant standards only.
- The external probe cable should be located as far as possible from potential interference sources.
- If it is necessary connect the device to the Internet, properly configured firewall must be used.
- The device should not be used for applications, where malfunction could cause to injury or damage to property.
- Devices contain electronic components, it needs to liquidate them according to legal requirements.
- To supplement the information provided in this data sheet, use the manuals and other documentations which are available at <a href="https://www.cometsystem.com">www.cometsystem.com</a>

# **Technical Specification**

Device type	P8552	P8652	P8653	
Supply voltage – coaxial connector 5.1 x 2.1mm, (+) pole in the midle	4.9 to 6.1 Vdc	4.9 to 6.1 Vdc	4.9 to 6,1 Vdc	
Power over Ethernet according to IEEE 802.3af, PD Class 0	no	yes	yes	
Power consumption	approximately 1 W	approximately 1 W	approximately 1W	
Temperature measuring range	according the pro be *	according the pro be *	according the pro be *	
Accuracy of temperature measurement	according the pro be *	according the pro be *	according the pro be *	
Relative humidity measuring range	according the pro be *	according the pro be *	according the pro be *	
Accuracy of relative humidity measurement	according the pro be *	according the pro be *	according the pro be *	
Temperature operating range (humidity 0 to 100%R H, no condensation)	-30 to +80°C	-20 to +60°C	-20 to +60°C	
Protection class	IP30	IP30	IP30	
Recomended calibration interval	according the pro be *	according the pro be *	according the pro be *	
Electromagnetic compatibility according to	EN 61326-1	EN 61326-1	EN 61326-1	
Mounting position	any position **	any position **	any position **	
Weight	140 g	145 g	145 g (LD-81 — 6 0 g)	
Dimensions [mm]  89.  76,5	(P) (MET TO S JOHN TO S JO	© CMET O	(D-81)	

# **Binary inputs**



<sup>\*</sup> see the Specification of external probes

### **External Probes**

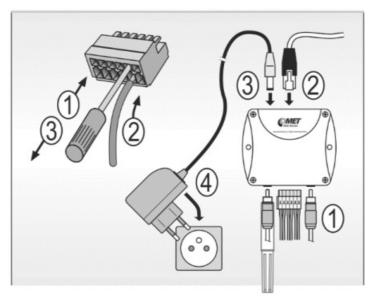
<sup>\*\*</sup> the device with attached DSRH/C or DST/C probe install always vertically with the sensor cover downwards

Probe type	DSTG8/C	DSTGL 40/C	DSTR1 62/C	DSRHxx+	DSRHIC	DST/C
Temperature measuring ra	-50 to +100°C	-30 to +80°C		0 to +50°C	0 to +50°C	-30 to +80°C
Accuracy of temperature measurement	± 0.5°C (-10 t o +85°C) ± 2. 0°C (-50 to -1 0°C) ± 2.0°C ( +85 to +100° C)	± 0.5°C (-10 to +8 0°C) ± 2.0°C (belo w -10°C)		± 0.5°C	± 0.5°C	± 0.5°C (-10 t o +80°C) ± 2.0°C (belo w -10°C)
Relative humidity measuri ng range	_	_		10 to 90 % RH *	10 to 90 %RH *	
Accuracy of humidity mea surement		_		± 3.5 %RH	± 3.5 %RH **	_
Temperature operating ran ge	-50 to +125°C	-30 to +80°C		-30 to +80°	-30 to +80°C	-30 to +80°C
Humidity operating range ( no condensation)	0 to 100 %RH	0 to 100 %RH		0 to 100 % RH	0 to 100 %RH	0 to 100 %RH
Protection class	IP67	IP67		IP40	IP20	IP20
Recomended calibration i nterval	2 years	2 years		1 year	1 year	2 years
Cable length	1, 2, 5, 10 m	1, 2, 5, 10 m		1, 2, 5 m	_	_
Mounting position	any position	any position		any position	sensor cover downwards	sensor cover downwards
Dimensions of the sensor [ mm]	ø 5.7 x 40	ø 5.7x 4 0	ø10 x25	ø 18 x90	ø 14 x 100	ø 14 x 100

<sup>\*</sup> the relative humidity measuring range is limited at temperatures below 0°C and above 50°C, see manual for probe

# **Device Connection Procedure**

<sup>\*\*</sup> from 10 to 90%RH at temperature 25°C



Specifications are subject to change without notice. IE-SNC-N-P8x52-05

## **Documents / Resources**



<u>COMET P8552 Web Sensors</u> [pdf] User Manual P8552 Web Sensors, P8552, Web Sensors, Sensors

# References

- <a> Manufacturer of Dataloggers, Thermometers, Hygrometers, CO2 meters</a>
- Manufacturer of Dataloggers, Thermometers, Hygrometers, CO2 meters
- User Manual

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