

COMET P2520 Dual Channel Current Loop Converter Web Sensor



COMET P2520 Dual Channel Current Loop Converter Web Sensor User Guide

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COMET P2520 Dual Channel Current Loop Converter Web Sensor



Specifications

- **Model:** XYZ-100
- **Color:** Black
- **Weight:** 2.5 lbs
- **Dimensions:** 10" x 5" x 3"

Product Information

The XYZ-100 is a versatile and lightweight product designed to simplify your daily tasks. With its sleek design and user-friendly interface, it offers convenience and efficiency in one package. Whether you're a professional or a casual user, the XYZ-100 is perfect for all your needs.

Product Usage In

Setup

Unbox the XYZ-100 and ensure all components are included. Plug in the device and power it on.

Navigation

Use the control panel to navigate through different settings and options. The intuitive interface makes it easy to access various functions.

Functionality

Explore the multiple features of the XYZ-100 such as XYZ mode, ABC mode, and DEF mode. Each mode offers unique capabilities to enhance your experience.

Maintenance

Regularly clean the device with a soft, dry cloth to prevent dust accumulation. Avoid using harsh chemicals or abrasive materials that may damage the product.

FAQ

1. How do I reset the XYZ-100?

To reset the XYZ-100, press and hold the reset button located on the back of the device for 10 seconds.

2. Can I use the XYZ-100 outdoors?

The XYZ-100 is designed for indoor use only. Avoid exposing it to extreme temperatures or moisture.

3. What is the warranty period for the XYZ-100?

The XYZ-100 comes with a one-year limited warranty from the date of purchase. Please refer to the warranty card for more details.

PRODUCT DESCRIPTION

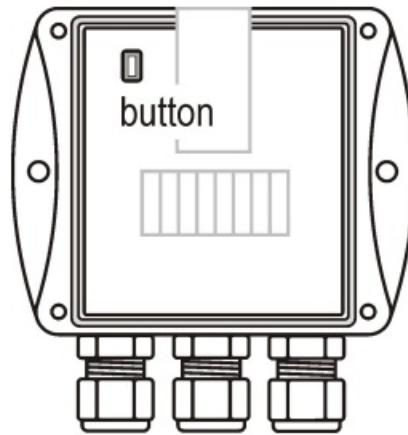
Converter Web Sensor P2520 is designed for the connection two sensors with current output into Ethernet network. The measured current (0-20mA or 4-20mA) can be converted to the physical quantity that is measured by the connected sensor. The converter is galvanically isolated from the Ethernet communication lines, current inputs and power supply are not galvanically isolated. Measured values can be read 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 <http://www.cometsystem.cz/products/reg-TSensor>) or using the www interface.

INSTALLATION AND OPERATION

Devices are mounted on a flat surface with two screws or bolts. The connecting terminals are accessible after unscrewing four screws in corner of case and removing the lid. Pass cables (external diameter 3 to 6.5 mm) through released glands and connect wires according the schematic diagram. Wire cross-section choose from 0.14 to 1.5 mm². Tighten glands and screw the lid. 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 converter 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.
- Run the configuration software TSensor. Set the „Ethernet“ communication interface and press „Find Device“ button. According to MAC address (see device label) select converter 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 next page).
- To restore the converter to the factory default settings use the button inside the device (see picture).
- Turn of the power and unscrew upper cover of the device case. Press the button, turn on the power and keep the button pressed for 10 sec. Close the device.



ERROR STATES

Devices continuously check its state during operation and if the error appears, it is displayed relevant code: Error 1 – parameters for linear conversion are set incorrectly, Error 3 – measured value can not be shown at 16bit register, please use 32bit register or change constants for conversion, Error 7 – measured value is over the upper limit, please check the current loop wiring and check the correct function of the sensor, Error 2, Error 4, Error 5 and Error 6 – it is a serious error, please contact technical support

SAFETY INSTRUCTIONS

- Installation, electrical connection and commissioning should be performed by qualified personnel only.
- Don't connect or disconnect device while power supply voltage is on, don't use the device without the cover.
- Use the power supply according to technical specifications and approved according to relevant standards.
- Never expose the converter to higher or lower temperatures than is allowed.
- Don't use the device, if it doesn't work correctly.
- If it is necessary connect the device to the Internet network, 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 www.cometsystem.cz.

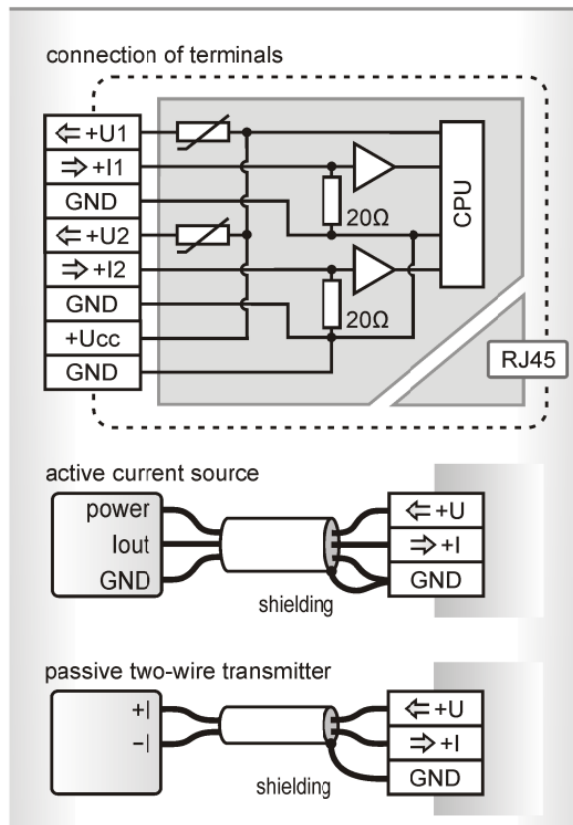
DEVICE SETUP

| | | |
|--|---|-------------------|
| Back Exit to main menu | | <h1>Settings</h1> |
| General General device settings | <u>General device settings</u> - device name can be changed to user specified name using the item Device name . History values will be cleared after changing History storage interval . | |
| Network Basic setting of the network interface | <u>Basic settings of the network interface</u> - parameters required for network setting are IP address , Default gateway and Subnet mask . Network parameters can be also obtained automatically from DHCP server using option Obtain an IP address automatically . | |
| Alarm limits Configuration of the alarm limits | <u>Configuration of the alarm limits</u> - for each measurement channel it is possible to set upper limit High limit , lower limit Low limit , Time delay for alarm activation and Hysteresis of alarm clearing. | |
| Channels General settings of the channels | <u>General settings of the channels</u> - for each channel it is possible to set name and unit. Measured current is recalculated (linear equation) to output value according settings (Current ... will be shown as ...). Output value is rounded according selected Number of decimal places . | |
| SOAP protocol Setup SOAP protocol for database system | <u>SOAP protocol</u> - can be enabled by option SOAP protocol enabled . Device send SOAP message according selected Sending interval . Sending of SOAP messages when alarm occurs or when alarm is cleared can be enabled by Send SOAP messages when alarm occurs . | |
| Email Alarm emails configuration | <u>Email sending</u> - device can send warning email when alarm occurs. Email is also sent when alarm condition is cleared. For proper email sending it is necessary to setup SMTP server connection, sender address and up to three addresses of email recipients. | |
| Protocols Syslog and ModbusTCP protocol settings | <u>ModbusTCP and Syslog protocols</u> - Modbus server is enabled by default. Deactivation is possible via Modbus server enabled option. Syslog protocol can be enabled using Syslog enabled option. Alarm messages are sent to Syslog server IP address . | |
| SNMP SNMPv1 protocol and SNMP Traps | <u>SNMP protocol</u> - for reading actual measured values using SNMP it is necessary to know password - SNMP read community . When alarm or error state occurs a warning message (Trap) can be sent (option Trap enabled) up to three IP addresses of the Trap recipients. | |
| Time Synchronization with NTP server | <u>Synchronization with SNTP server</u> - time can be synchronized according the SNTP server. It is necessary to set GMT offset [min] and SNTP server IP address . The default synchronization interval (24 hours) can be changed to one hour interval. | |
| www and security Web server and Security configuration | <u>Web server and Security</u> - security features can be enabled by the Security enabled option. Port of the www server can be changed from the default value 80 using WWW port option. Web pages with actual values are refreshed according to Web refresh interval option. | |
| Maintenance Factory defaults, info, etc. | <u>Factory defaults</u> - device is restored to factory settings using the Factory defaults option. Network parameters like a IP address, subnet mask and gateway will not be changed. For a complete factory settings use the small button inside the device. | |

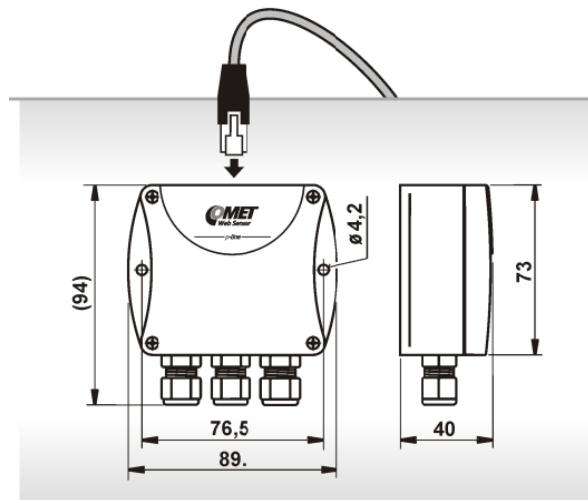
TECNICAL SPECIFICATIONS

| | | | |
|-------------------------------------|---|----------------------------------|--------------------------------|
| Supply voltage +Ucc | 9 to 30Vdc | Protection class | IP30 |
| Power consumption * | max. 1W | Temperature operating range | -30 to +80°C |
| Current load of the U1,U2 terminals | max. 40mA (protected with PTC thermistor) | Humidity operating range | 0 to 100%RH (no condensation) |
| Current measuring range | 0 to 25mA (max. input current 30mA) | Electromagnetic compatibility | EN 61326-1, EN 55011, EN 55022 |
| Accuracy of current measurement | ±0.1% of measuring range from 0 to +50°C ±0.3% of measuring range from -30 to +80°C | Mounting position | any position |
| Resolution | 1µA | Recommended calibration interval | 2 years |
| Input impedance | 20Ω | Weight | 150 g |
| | | Dimensions [mm] | see dimensional drawing |
| Communication port | RJ45 connector - galvanically isolated from communication line, 10Base-T/100Base-TX Ethernet (Auto-Sensing) | | |
| Memory | 1000 values for each channel (non-backup RAM memory) | | |
| Screen resolution | minimum 1024 x 768 | | |
| Supported protocols | TCP/IP, UDP/IP, ARP, ICMP, DHCP, HTTP, SMTP, SNMPv1, ModbusTCP, SNTP, SOAPv1.1, Syslog | | |
| Supported web browsers | Internet Explorer 9, Mozilla Firefox 12 and later, Google Chrome 18 and later, Opera 11 and later, Safari 5 and later | | |

ELECTRICAL WIRING



DIMENSION



Documents / Resources



[COMET P2520 Dual Channel Current Loop Converter Web Sensor](#) [pdf] User Guide
P2520 Dual Channel Current Loop Converter Web Sensor, P2520, Dual Channel Current Loop Converter Web Sensor, Current Loop Converter Web Sensor, Converter Web Sensor

References

-  [Výrobce snímačů teploty, vlhkosti, atmosférického tlaku, dataloggerů, monitorovacích systémů](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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