



LOW COST INTELLIGENT ETHERNET THERMOMETER



- APPLICATIONS
- server rooms
- telecommunication devices
- warehouses, glasshouses
- manufacturers
- museums, archives, galleries
- air-conditioned rooms

Ethernet thermometer is designed for ambient temperature measurement and measurement from up to four external temperature cable probes. Measurement in degrees Celsius and degrees Fahrenheit supported. Ethernet thermometer is built in a durable plastic case. Ethernet interface enables to control thermometer via PC. The following communication modes are supported:

MODES OF COMMUNICATION

ModBus TCP:	Modbus TCP protocol enables to read measured values, set alarm limits, adjust the probe, read firmware version.
Telnet:	Port 9999 enables to set alarm limits (lower and upper limits for T, RH, Tdp, hysteresis and time delay), e-mail addresses, SNMP addresses, probe description, refresh of www pages (10s to 65535s), select type of www pages, set storing interval to history (10s to 65535s), enable each communication channel. Capacity of the history memory is 100 sets of measured temperature, humidity, pressure+computed value. Password protection of this port is enabled. Automatic IP address assignment from DHCP server is also enabled.
www pages:	User selectable design of www pages enabling to display curves of measurement history. User can design the look of www pages and select values to display.
SNMP:	It is possible to read actual values and alarm limits. In case of alarm creation warning message (trap) is sent to IP addresses defined by the user (maximum three addresses).
SOAP:	Transmitter enables to send actual measured data in the format of SOAP message to selected web server in preset interval 10-65535 s. In case message is not received by the server till next message is sent, warning trap 1/2 is sent.

ALARM OPTIONS

E-mail:	In case of alarm creation warning e-mail message is sent to addresses defined by the user (maximum three addresses).
www pages:	In case of exceeding adjusted limits of measured values active alarm is displayed at www page.
SNMP:	In case of alarm creation warning message (trap) is sent to IP addresses defined by the user (maximum three addresses).
syslog:	Transmitter enables to send text messages to selected syslog server after different events appear. E.g. after transmitter restart, alarm activation, communication error with SNTP, write to transmitter via mdb, sntp, after firmware change, after alarm termination, after communication error with SOAP server.

TECHNICAL PARAMETERS

Supported temperature units:	degrees Celsius, degrees Fahrenheit
Temperature sensor:	digital temperature sensor Dallas DS18B20
Range and accuracy of P8511, P8541:	-55 to +80°C, accuracy ±0.5°C from -10 to +80°C
Range and accuracy of P8510:	-30 to +80°C, accuracy ±0.8°C
Resolution:	0.1°C
Measuring interval:	2 s
Operating temperature range:	-30 to +80°C
Protection:	IP30
Temperature probe connector:	connector CINCH
LAN connection:	connector RJ-45
Power:	5Vdc, max. consumption 250mA, e.g. ac/dc adapter - see Optional accessory
Power connector:	axial, diameter 5 x 2.1 mm
Mechanical dimensions of model P8510:	88 x 126 x 37 mm (W x H x D)
Mechanical dimensions of P8511, P8541:	88 x 74 x 37 mm (W x H x D)
Weight:	240 g



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Available thermometer models:



Thermometer P8510 with built-in temperature sensor



Single-channel thermometer P8511 for one cable probe DSTGL40/C



Four-channel thermometer P8541 for four cable probes DSTGL40/C

Included accessory:

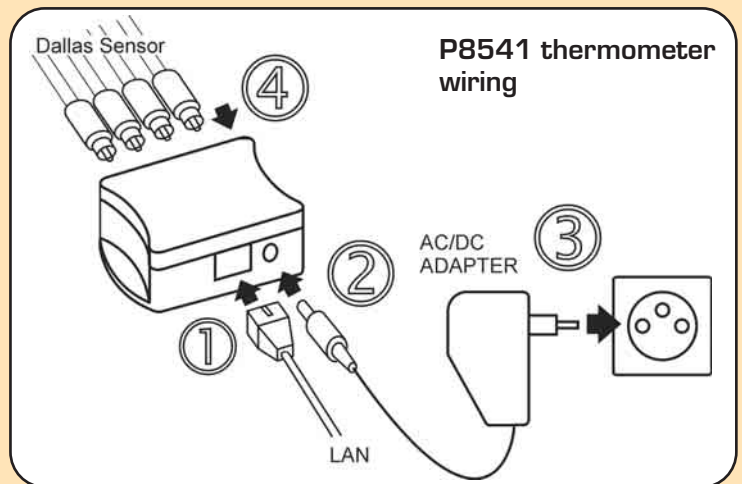
Traceable calibration certificate from the manufacturer, instruction manual. Calibration certificate with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard.

Free program TSensor for configuring of the transmitter is ready to download from www.cometsystem.cz.

Free program SensorReader for logging values from one thermometer to a PC disk file is ready to download. Recorded values in CSV format are easy to process in e.g. Excel.

For acquiring values from several transmitters, third party software is necessary to use. Tested functionality is with programs TIRS.NET, ControlWeb, EasyView.

For record of values to graphs via web interface, project Cacti www.cacti.net is available.



Optional accessory:



DSTGL40/C - temperature probes -30 to +80 °C with digital sensor Dallas DS18B20 with Cinch connector for thermometers P8511, P8541. Stainless steel 17241 with PVC cable of specified length. Diameter 5.7mm, length 40mm. Cable lengths 1,2,5 or 10 meters available.



MDO36 - self adhesive Dual Lock for easy installation



A1825 - ac/dc adapter 230V-50Hz/5Vdc

For power over Ethernet any PoE splitter is necessary - e.g. D-Link DWL-P50.