LOW COST INTELLIGENT ETHERNET THERMOMETER





____APPLICATIONS

_____ server rooms

Lelecommunication 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.

Online data acquisition system from thermometers connected to Ethernet/Internet can be easily built by means of Comet software package Database Sensor Monitor.

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 600 sets of measured temperature, export to CSV file enabled. 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). Basic SMTP autentization is supported.	
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 DS18B2O		
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:	2s		
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 39.5 mm (W x H x D)		
Mechanical dimensions of P8511, P8541 :	88 x 74 x 39.5 mm (W x H x D)		
Weight:	240 g		



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SWR009 - Program package Database Sensor Monitor for online data acquisition and analysis from Comet sensors.

It contains all necessary components for monitoring of sensors, including one licence of Database Viewer.



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.

DSTGL40/C - temperature probes -30 to +80°C with digital sensor Dallas DS18B20 with Cinch



MD036 - 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.

