Compact Temperature, Humidity, and Barometric Pressure Sensor, Ethernet Output and PoE

code: TA7610

The TA7610 is a universal Ethernet sensor combining temperature, humidity, and atmospheric pressure measurement in one compact device.
Thanks to the integrated pressure sensor, it is also suitable for applications where it is necessary to monitor changes in barometric pressure.

A clear backlit LCD display, multi-level alarm signaling, and PoE support make the TA7610 an ideal solution for professional environmental monitoring.

This 'all-in-one' device is intended for demanding applications where it is necessary to monitor complete air parameters, such as in laboratories, clean rooms, or other technical and climate applications.

Main Benefits:

- Temperature, humidity, and pressure measurement in one device
- High accuracy ±0.4 °C and long-term stability
- Backlit LCD display, acoustic and LED alarm signaling
- Power supply 5–24 V or PoE
- Integrated backup memory
- Modern web interface, IPv4/IPv6 support, Modbus TCP, COMET Cloud, and fully encrypted communication (HTTPS, SNMPv3, TLS)
- Integrated detachable bracket for easy installation

Technical data

TEMPERATURE SENSOR	
Measuring range	-30 to +60 °C
Accuracy	±0.4 °C
Resolution	0.1 °C
HUMIDITY SENSOR	
Measuring range	0 to 100 % RH
Accuracy	±2.5 % RH from 5 to 95 % at 23 °C
Resolution	0.1% RH
DEW POINT	
Measuring range	-60 to +80 °C
Accuracy	±1.5 °C at ambient temperature T < 25 °C and RH > 30 %
Resolution	0.1 °C
ATMOSPHERIC PRESSURE SENSOR	
Measuring range	600 to 1100 hPa
Accuracy	±1.3 hPa at 23 °C, from 800 to 1100 hPa
Resolution	0.1 hPa
GENERAL TECHNICAL DATA	

Operating temperature range	-30 to +60 °C
Measurement channels	integrated temperature, humidity and atmospheric pressure sensors
Calculated values	dew point temperature, absolute humidity, specific humidity, mixing ratio, specific enthalpy, humidex, heat index
Supported temperature units	degrees Celsius (°C), degrees Fahrenheit (°F)
Supported atmospheric pressure units	hPa, kPa, mbar, mmHg, inHg, inH2O, PSI, oz/in2
Temperature compensation of the humidity sensor	across the entire temperature range
Power supply	Power over Ethernet (IEEE 802.3af) or 5–24 V DC
Network interface	Ethernet
IP support	IPv4, IPv6
Communication protocols	HTTP(s), Web server (WWW), HTTP GET (JSON, XML), Modbus TCP, SNMPv1, SNMPv2c, SNMPv3
Alarm protocols	Email (SMTP), Syslog
Measurement interval	1 s
Ingress protection (IP rating)	IP30 (electronics), IP40 (sensors)
Dimensions	116 x 85 x 42 mm; stem 77 x 18 mm
Weight	230 g
Warranty	3 years