

Ethernet-based Environmental sensors



Advanced Ethernet-based environmental monitoring solutions

Flexible data acquisition, monitoring, and access to real-time and historical data through the integrated web server, ATAL database software, and OnlineSensor cloud platform. The data is accessible through direct Ethernet connectivity, secure web-based access, and advanced protocol support, eliminating the need for dedicated software installations. Designed for seamless integration into modern building management and industrial automation environments, the sensors are especially suitable for HVAC, pharmaceutical, laboratory, industrial, and critical facility applications.

Available measurement parameters

- Temperature: -200 °C to +260 °C
(depending on probe)
- Relative humidity
- CO₂ concentration
- Barometric pressure
- Dew point temperature
- Binary inputs and status monitoring



Key benefits

- Secure Ethernet communication with cybersecurity-focused architecture
- Direct LAN connectivity without gateways or proprietary software
- Integrated web server with intuitive browser-based access
- Immediate visibility of live and historical measurement data
- Cloud monitoring via OnlineSensor
- Alarm notification via email and remote monitoring functions
- Local data buffering for maximum data integrity
- Power over Ethernet (PoE) support simplifies installation
- Remote configuration and firmware management

Features - ATE series

Advanced environmental monitoring for critical applications

The ATE series combines high measurement accuracy, advanced calculation functions, and multiple sensing technologies. Designed for HVAC, pharmaceutical storage, cleanrooms, laboratories, data centres, and industrial process monitoring, the ATE series delivers reliable environmental data with secure network connectivity and browser-based access.

Premium features for demanding environments

- High-accuracy, simultaneous monitoring of temperature, relative humidity, CO₂, and barometric pressure
- Multichannel monitoring with support for external probes
- Combined and differential measurements
- Advanced environmental calculations, including dew point and humidex
- Integrated display with visual, LED, and acoustic alarm indication
- Extensive alarm management capabilities
- Secure Ethernet communication and remote configuration
- Ideal for critical monitoring applications and regulated or quality-controlled environments requiring comprehensive environmental monitoring
- A complete overview of compatible probes, accessories and mounting options can be found on our website



Models	ATE-T	ATE-TE	ATE-2TE	ATE-1U	ATE-2U	ATE-1U-2TE	ATE-1U-P	ATE-TR	ATE-TRP	ATE-TRCP	ATE-C-P
Function:	Temp - internal	Pt1000 external (1x)	Pt1000 external (2x)	Te+RH or CO ₂ external (1x)	Te+RH or CO ₂ external (2x)	Te+RH or CO ₂ external (1x) Pt1000 external (2x)	Te+RH or CO ₂ external (1x) Atm.P - internal	Te+RH internal	Te+RH - Atm.P - internal	Te+RH - Atm.P - internal CO ₂ - internal	CO ₂ - Atm.P - internal
Temp range:	-30 to +60 °C	-200 to +260 °C *	-200 to +260 °C *	Depending on optional Te/RH or CO ₂ probe	Depending on optional Te/RH or CO ₂ probe	Depending on optional Te/RH or CO ₂ probe	Depending on optional Te/RH or CO ₂ probe	-30 to +60 °C	-30 to +60 °C	-30 to +60 °C	-
RH range:	-	-	-					0 to 100 % RH	0 to 100 % RH	0 to 100 % RH	-
CO ₂ range:	-	-	-					-	-	0 to 5.000 ppm	0 to 5.000 ppm
Atm. pressure:	-	-	-	-	-	-	600 to 1100hPa	-	600 to 1100hPa	600 to 1100hPa	600 to 1100hPa

* depending on optional probe



Features - APE series

Flexible monitoring with external sensor connectivity

The APE series offers a cost-effective and scalable solution for environmental monitoring applications requiring flexible probe placement and Ethernet connectivity. Designed for larger installations and distributed measurement systems, the APE series supports external temperature and humidity probes while maintaining the same secure networking infrastructure and web-based monitoring capabilities as the ATE series.

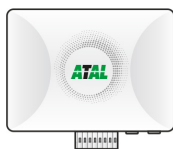
The ATE and APE series feature dedicated probe platforms optimized for their respective applications. As a result, probes are not interchangeable between series. A complete overview of compatible probes, accessories, and mounting options can be found on our website.

Premium features for large installations

- Cost-effective, scalable architecture for large-scale and distributed monitoring projects
- Flexible connectivity for external temperature and humidity probes
- Compact design without an integrated display
- Simple installation and commissioning
- Secure Ethernet communication with remote access
- Browser-based configuration and monitoring
- Easy integration with BMS, SCADA, and automation systems
- Ideal for warehouses, utility rooms, technical spaces, and building automation projects
- A complete overview of compatible probes, accessories and mounting options can be found on our website

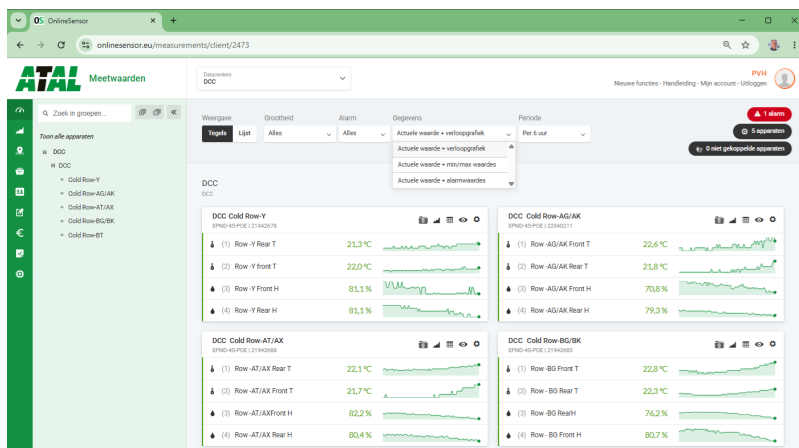


Models	APE-T	APE-1S	APE-2S-3C	APE-4S
Function:	Temp Internal	1xTe or Te+RH external (cinch) max 2 parameters	2x Te or Te+RH external (cinch) max 4 parameters 3x contact input (external wago)	4x Te of Te+RH external (cinch) max 8 parameters
Temp Range:	-30 to +60°C	Depending on optional Te or Te+RH probe	Depending on optional Te or Te+RH probe	Depending on optional Te or Te+RH probe
RH range:	-			
Contacts:	-	-	3x dry contact	-

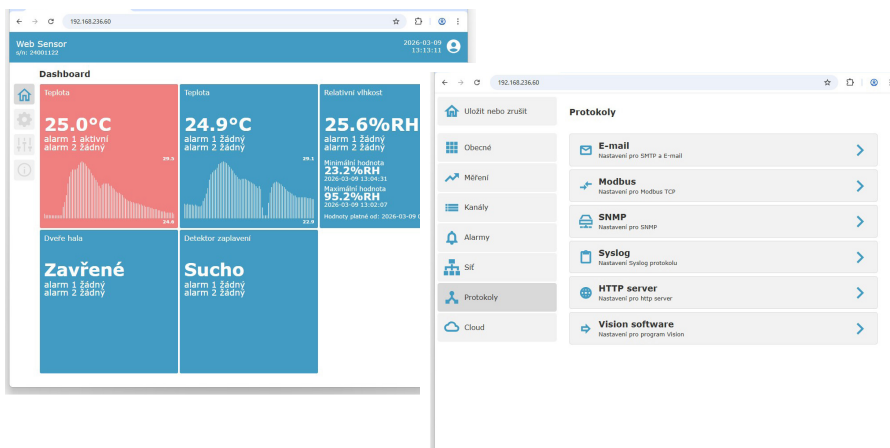


Flexible monitoring software for cloud and on-premise applications

The new generation Ethernet-based sensors provide secure access to environmental measurement data through an integrated web server, ATAL database software, and OnlineSensor cloud platform. Whether deployed in cloud-based or on-premise environments, users benefit from real-time monitoring, historical data analysis, alarm management, and seamless integration with building automation and industrial monitoring systems. Interactive dashboards support graphical and tabular visualization, device grouping, and multi-parameter trend analysis.



OnlineSensor cloud platform
Real-time monitoring, historical
data analysis, alarmmanagement



Access real-time and historical
measurement data via the
integrated web interface.
Real-time values and alarm status
are available from any authorized
web browser.

Open communication architecture

The new generation Ethernet-based sensors support industry-standard communication protocols, enabling seamless integration with Building Management Systems (BMS), SCADA platforms, PLCs, and enterprise monitoring applications.

Supported protocols:

SNMP v1-v3

- Secure network monitoring and device management
- Authentication and encryption support

Modbus TCP

- Native integration with PLC, HVAC, and industrial automation systems

HTTPS / JSON

- Secure browser access and API-based data exchange

Email notifications

- Automated alarm and system status notifications



Your distributor

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