

Ethernet-based environmental sensors **(with 3 contact inputs and 2 relay outputs)**



Wall mounted design

MP047
Universal holder for probes
for easy mounting to rack 19".

Power port for 9-30 Vdc

2x relay outputs

24/7 Monitoring
Analysis
Control
Alert

Button for deactivation of audible

Network port RJ45

Three inputs for detector connection- dry contact, open collector, two-state voltage signal.

Smoke detector

Flood detector

Door contact

Motion detector

Temperature and humidity sensor



Rack mounted design



Mounting accessories



Integration

To integrate the Ethernet-based sensors into your system, the following communication protocols are available:

Modbus TCP

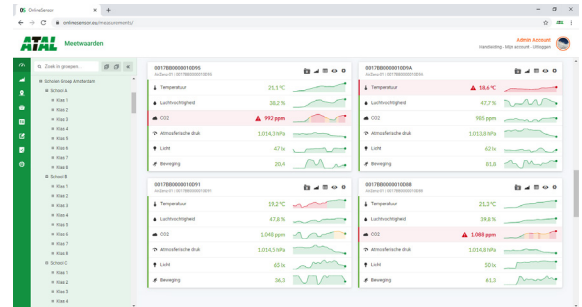
- Industrial communication protocol for integration into SCADA systems and third-party software. The device communicates using the Modbus TCP protocol over Ethernet.

SNMP (Simple Network Management Protocol)

- SNMP v1 for IT infrastructure monitoring. Enables reading of measured values, alarm states, and configuration parameters. MIB tables with OID definitions are available.

SNMP Trap

- Supports transmission of SNMP traps to a designated trap receiver. Traps are generated in case of alarm conditions or device errors.



SOAP (Simple Object Access Protocol)

- Enables transmission of measured values via SOAP v1.1 in XML format to a web server. Communication is initiated by the device, eliminating the need for port forwarding.

Syslog

- Supports sending event messages to a configured Syslog server. Messages are generated in case of alarms or error conditions.

SNTP (Simple Network Time Protocol)

- Automatic time synchronization with an SNTP server. Accurate time is required for timestamping data and log files.

XML data output

- Provides access to current measured values via XML. Suitable for integration into third-party systems and SCADA applications.

Humidex

- Calculated parameter combining temperature and relative humidity. Indicates perceived temperature. Output unit: °C.

Sensor protection filters



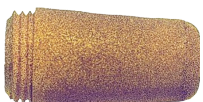
ATS-AC12P (PTFE filter)

Enhanced protection against splashing water
Not suitable for condensing environments
Filtration rating: 0.025 mm



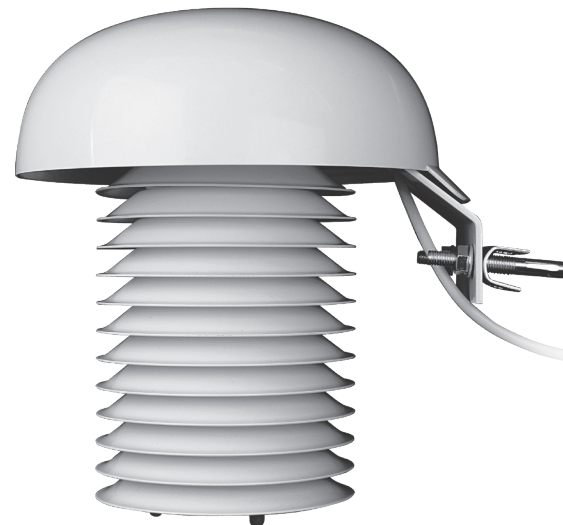
ATS-AC12B (Stainless steel mesh filter)

Designed for moderately dusty environments
Robust construction for industrial applications
Filtration rating: 0.025 mm



ATXV-AC19 (Sintered bronze filter)

Suitable for moderately aggressive environments
Maintains airflow while protecting the sensor
Filtration rating: 0.025 mm



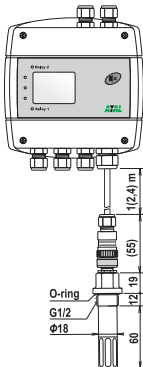
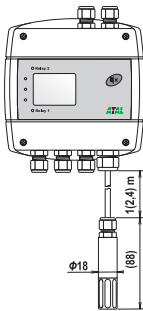
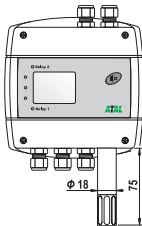
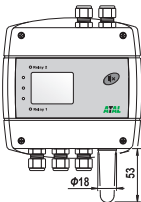
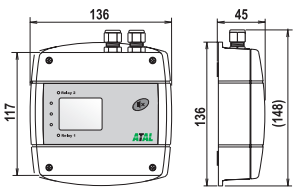
ATF8000

Solar radiation shield for transmitters with a (remote) temperature and relative humidity probe

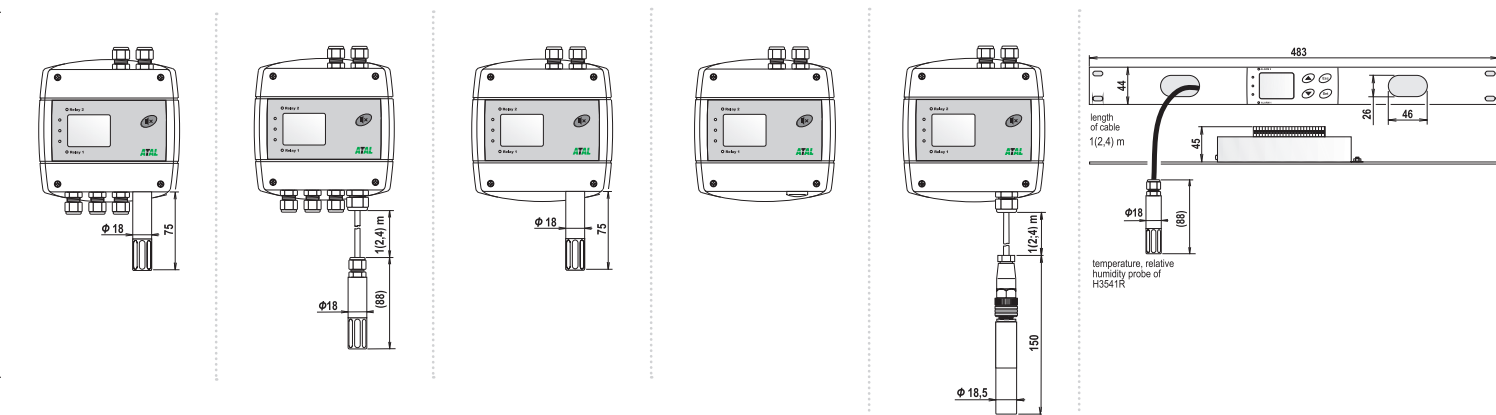
Designed to minimize the influence of solar radiation on measurement accuracy and ensure reliable ambient readings in outdoor applications.

Model overview

Measured values		Temperature		Temperature, relative humidity		
SENSOR MODEL		STE-101E	STE-101	STRE-102	STRE-104	STRE-104P
Temperature	Range	-200 to +600 °C	-30 to +80 °C	-30 to +80 °C	-30 to +105 °C	
	Accuracy	±0,2 °C without temp. probe	±0,4 °C	± 0.4 °C	± 0.4 °C	
Relative humidity**	Range	-	-	0 to 100 % RH	0 to 100 % RH	
	Accuracy	-	-	± 2.5 % RH	± 2.5 % RH	
Atm. pressure**	Range	-	-	-	-	
	Accuracy	-	-	-	-	
CO ₂ ***	Range	-	-	-	-	
	Accuracy	-	-	-	-	



Temperature, relative humidity, atm. pressure		Temperature, relative humidity, CO ₂	CO ₂		Temperature	Temperature, relative humidity
STRPE-102	STRPE-104	AT-VLS-102DE	AT-VLS-101DE	AT-VLS-104DE-1M	STE-RACK	STRE-RACK
-30 to +80 °C	-30 to +105 °C	-30 to +80 °C	-	-	-200 to +600 °C	-30 to +105 °C
± 0.4 °C	± 0.4 °C	± 0.4 °C	-	-	±0,2 °C without temp. probe	±0,4 °C
0 to 100 %RH	0 to 100 %RH	0 to 100 %RH	-	-	-	0 to 100 %RH
± 2.5 %RH	± 2.5 %RH	± 2.5 %RH	-	-	-	± 2.5 %RH
600 to 1100 hPa	600 to 1100 hPa	-	-	-	-	-
±1.3 hPa	±1.3 hPa	-	-	-	-	-
-	-	0 to 2000 ppm	0 to 2000 ppm	0 to 10000 ppm	-	-
-	-	± (50 ppm +2 % of measured value)	± (50 ppm +2 % of measured value)	± (110 ppm +5 % of measured value)	-	-



Webinterface

Remote controlling of relay via internet

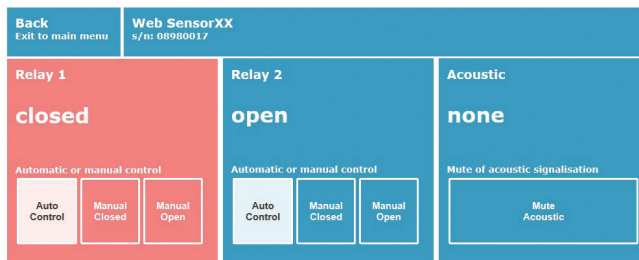
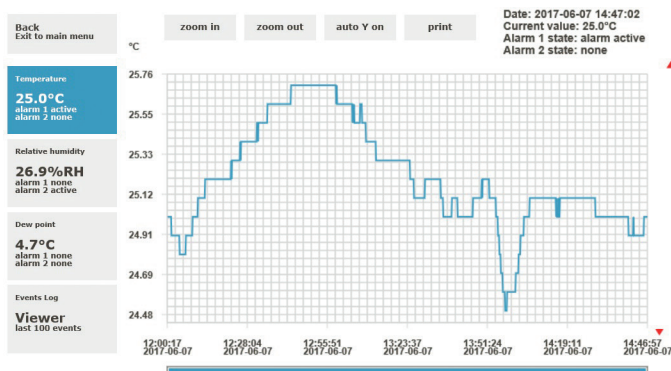


Chart with historical value

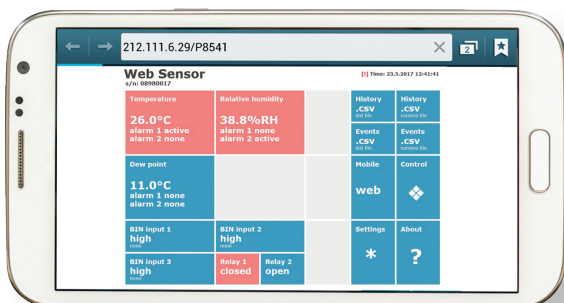


Web browser interface

Web Sensor

s/n: 08980017

Temperature 26.0°C alarm 1 active alarm 2 none	Relative humidity 38.8%RH alarm 1 none alarm 2 active	
Dew point 11.0°C alarm 1 none alarm 2 none		
BIN input 1 high none	BIN input 2 high none	
BIN input 3 high none	Relay 1 closed	Relay 2 open



Recorded events

all	value	binary	relay	Events .csv dot	Events .csv comma
14:15:50 2017-05-29		Relay	Relay1	Closed	
14:15:49 2017-05-29		Relay	Relay1	Open	
14:15:35 2017-05-29		Relay	Relay2	Open	
14:15:32 2017-05-29		Relay	Relay2	Closed	
14:15:30 2017-05-29		Relay	Relay2	Open	
14:15:29 2017-05-29		Relay	Relay2	Closed	
14:15:26 2017-05-29		Relay	Relay2	Open	
14:15:25 2017-05-29		Relay	Relay2	Closed	
14:13:33 2017-05-29		Relay	Relay2	Open	
14:13:32 2017-05-29		Relay	Relay2	Closed	

[!] Time: 23.5.2017 12:41:41

History
.CSV
dot file

History
.CSV
comma file

Events
.CSV
dot file

Events
.CSV
comma file

Mobile

Control

web

Settings

About

Software development kit available for

- > SNMPv1 protocol
- > ModbusTCP protocol
- > XML file values.xml
- > SOAP protocol
- > Syslog list

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Settings of relays

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Settings of internal siren

Measuring
Units, display settings, etc.

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Setup SOAP protocol for database system

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Alarm emails configuration

Protocols
Syslog and ModbusTCP protocol settings

SNMP
SNMPv1 protocol and SNMP Traps

Time
Synchronization with NTP server

WWW and Security
Web server and Security configuration

Backup
Save or restore configuration

Maintenance
Factory defaults, info, etc.

Configuration of the alarm limits. Each channel have two alarm limits with selectable direction. Alarm is activated when measured value exceeds set limit with a selected time delay. Alarm is cleared if measured value returns back with hysteresis.

Temperature limits
Current value: 23.1 °C

	Alarm on	Limit [°C]	Delay [sec]	Hysteresis [°C]	Alarm on error	Send Email
Alarm 1	Higher than limit	10.0	5	1.0	☒	☐
Alarm 2	Higher than limit	50.0	5	1.0	☒	☒

Relative humidity limits
Current value: 40.9 %RH

	Alarm on	Limit [%RH]	Delay [sec]	Hysteresis [%RH]	Alarm on error	Send Email
Alarm 1	Disabled	50.0	5	1.0	☒	☒
Alarm 2	Lower than limit	50.0	5	1.0	☒	☒

Dew point limits
Current value: 9.1 °C

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Binary inputs settings. Alarms on binary inputs are evaluated by the selected alarm level (Alarm on) and time delay for alarm. Binary input LED indication is selectable according required state of input.

Settings of binary inputs
Configuration for each binary input

	Input name	"0" state description	"1" state description	LED indication on
Input 1	BIN input 1	low	high	low
Input 2	BIN input 2	low	high	low
Input 3	BIN input 3	low	high	low

Alarms for binary inputs
Settings of alarm state and delay for binary inputs

	Alarm on	Delay [sec]	Send Email
Input 1	low	5	☒

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Relay settings

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Settings for control of relays in device. Relays are controlled according selected alarms on measurement channels. Relay is closed in case of activating at least one of selected alarm. It is used logical OR operation between alarm states.

Relay 1 setup matrix
Selected alarms on channels to close Relay 1.

	Temperature	Relative humidity	Humidex
Alarm 1	☒ >22.0°C	☐ <30.0%RH	☐ >30.0°C
Alarm 2	☐ >28.0°C	☒ >65.0%RH	☐ >40.0°C
	Door	Leak detector	Warp drive
Alarm BIN	☐ =open	☐ =leak	☐ =on

Relay 2 setup matrix
Selected alarms on channels to close Relay 2.

	Temperature	Relative humidity	Humidex
Alarm 1	☐ >22.0°C	☐ <30.0%RH	☐ >30.0°C
Alarm 2	☐ >28.0°C	☐ >65.0%RH	☒ >40.0°C
	Door	Leak detector	Warp drive
Alarm BIN	☐ =open	☒ =leak	☐ =on

Advanced relay options
Far control option enables manual control for the relay from webpages and Modbus TCP protocol.

Relay 1 far control enabled ☒

Relay 2 far control enabled ☒

Apply settings

Cancel changes



Your distributor

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