HW group HWg-STE Thermometer Instruction Manual

HWg-STE
HWg-STE PoE
MANUAL

Contents

HWg-STE connectors

LED indicators

Green: Power & Mode
Yellow: Link & Activity

SENSORS

S1 and S2 ports for connecting temperature or humidity sensors.
- Max. distance with 1 sensor is 60m
- Max. total length with 2 sensors is 60m

POWER input

5VDC supply
Use the supplied power adapter
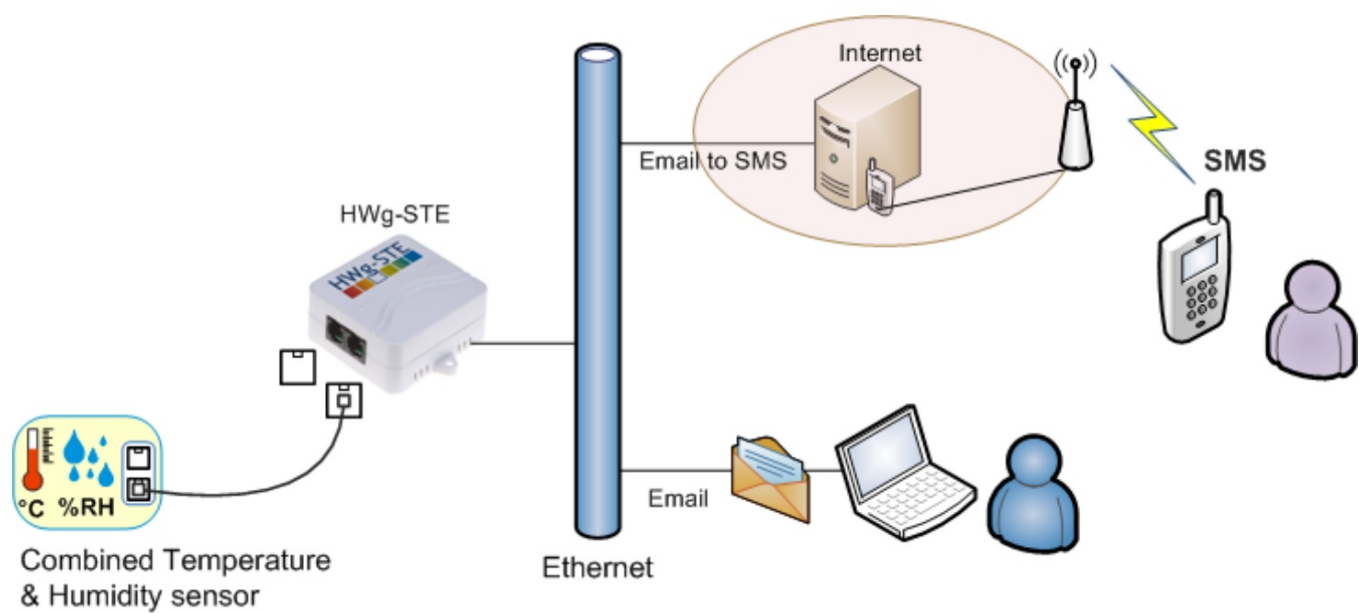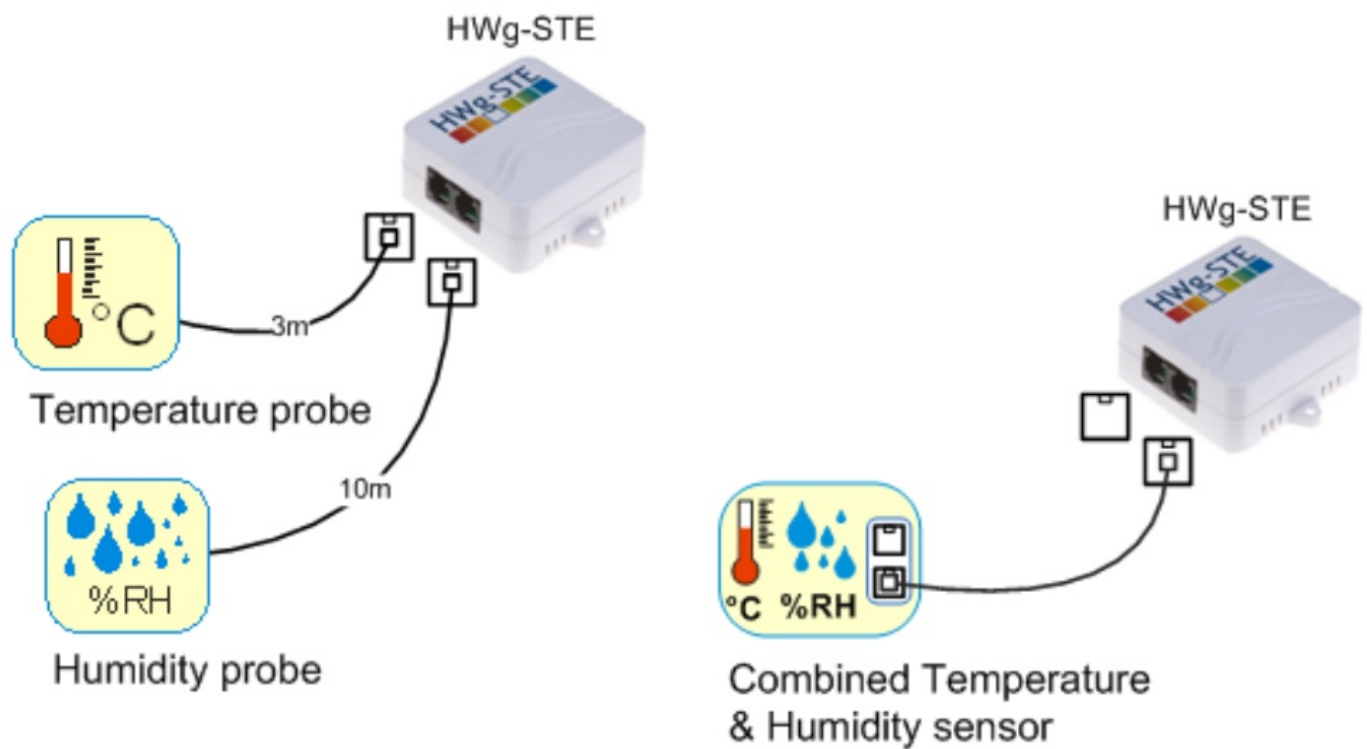
ETHERNET

100 Mbps

*) PoE power for HWg-STE PoE
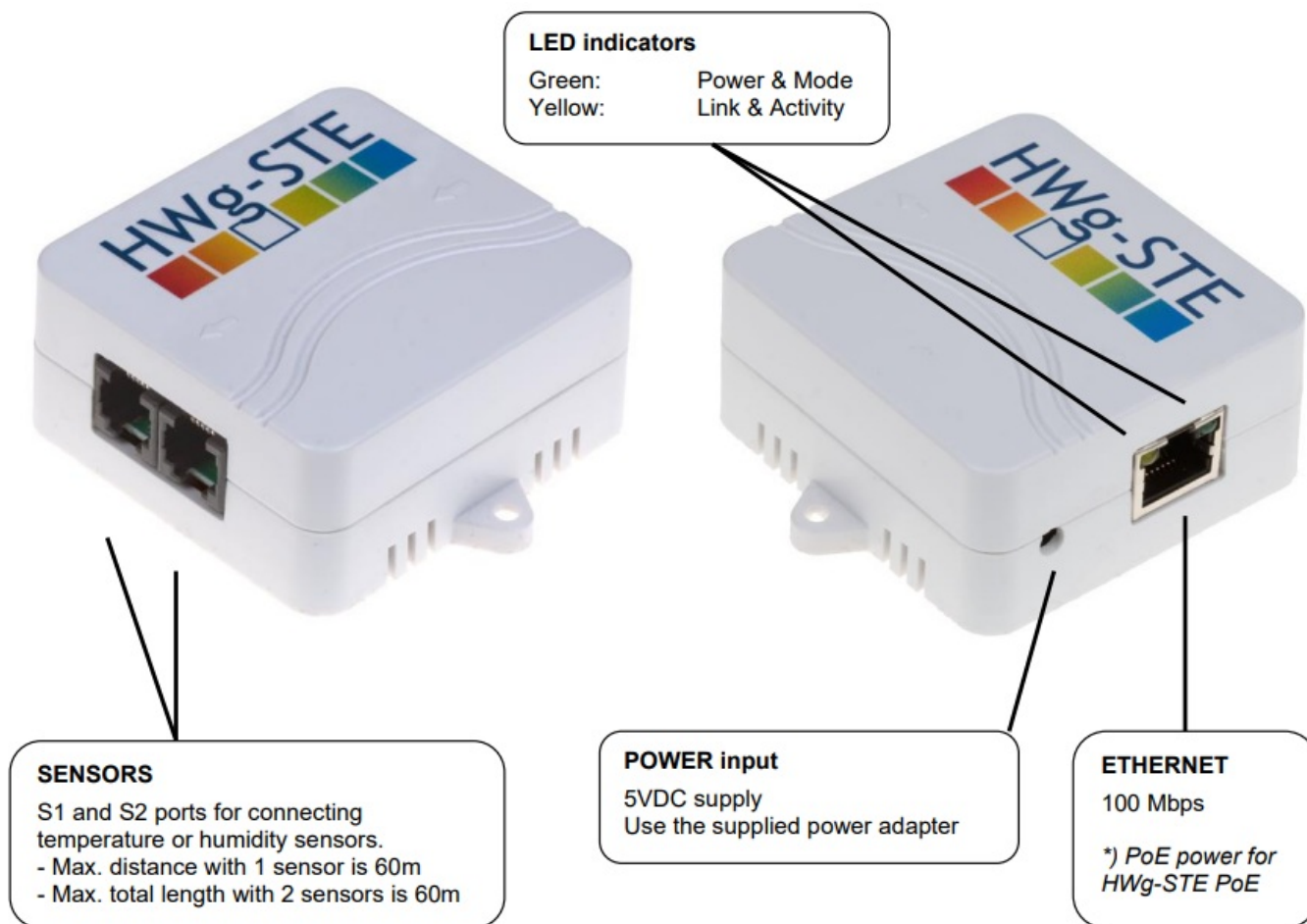
Recommended connection options
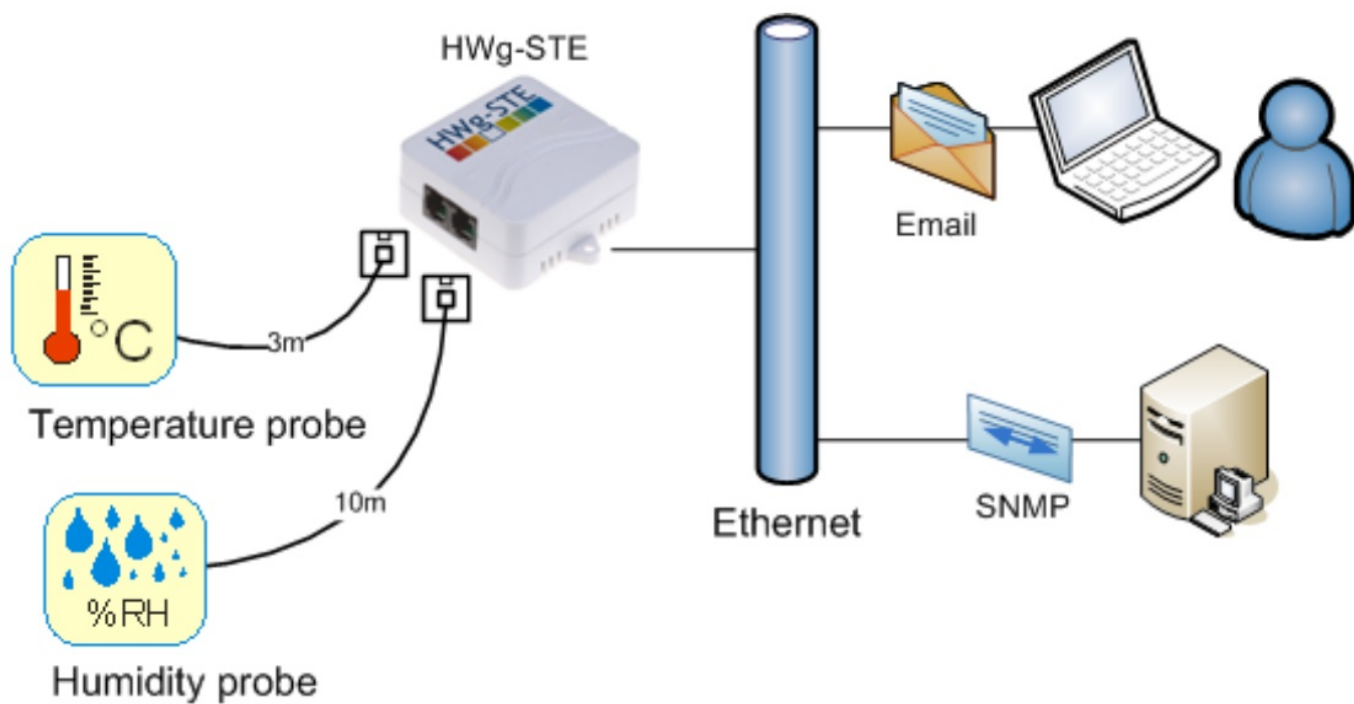
Forwarding alarms to SMS (via the Email-2-SMS service):

Sensor connection options:

HWg-STE

Temperature probe

Humidity probe

Combined Temperature
& Humidity sensor

First steps

1. **Connecting the cables**
   - Connect the unit to the Ethernet (patch cable to a switch, or a cross-over cable to a PC).
   - Plug the power adapter into a power outlet and connect it to the HWg-STE power connector.
   - The green Power & Mode LED in the RJ45 connector lights up.
   - If the Ethernet connection works properly, the LINK (yellow) LED lights up after a short while, and then flashes whenever data transfer takes place (activity indication).
   - After power-up, the LINK LED flashes rapidly to indicate IP address negotiation over DHCP.

2. **Configuring the IP address – UDP Config**
   UDP Config utility – root directory of the supplied CD (Windows and Linux versions). Available for download at **www.HWgroup.com** Software > UDP Config.
   - Click the icon to launch UDP Config. The program automatically looks for connected devices.
   - To search for devices, click the Find Devices icon. The program looks for devices on your local network. Double-click a MAC address to open a basic device configuration dialog.

   Configure network parameters

   - IP address / HTTP port (80 by default)
   - Network mask
   - Gateway IP address for your network
   - Device name (optional)

   Click the **Apply Changes** button to save the settings.
   Restoring factory defaults

   - Right-click on the device MAC address and select "Load default values". Within 60 seconds after powering up the unit, factory defaults can be restored using UDP Config.

- Disconnect the power jack, connect the jumper near the RJ11 sockets, power up the device, and wait 15 seconds. Then, disconnect the power and disconnect the jumper. The device is ready in its factory default configuration.

UDP Setup 2.2.0 for HW group products (www.hw-group.com)						

HW group — www.HW-group.com
Version: 2.2.1 — HW group — www.hw-group.com — Setup utility for the HW group devices

Your PC network settings
IP address: 192.168.1.214
Netmask: 255.255.255.0
Gateway: 192.168.1.253

? About...

🏃 **Find Devices**

Device list:

| MAC	Name	IP	Device type	Port	Parameters
00:0A:59:01:E0:3C		80.250.21.88	IP Watchdog lite	99	TCP setup=Y
00:0A:59:03:0D:0A		80.250.21.85	Poseidon model 3265	80	TCP setup=Y
00:0A:59:00:AA:E2		192.168.1.61	Unspecified device	23	TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AA:E3		192.168.1.62	Unspecified device	23	TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AC:48		192.168.1.65	Unspecified device	23	TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:AC:49		192.168.1.64	Unspecified device	23	TCP setup=Y, TEA=N, NVT=Y
00:0A:59:00:A8:FB		192.168.1.2	Unspecified device	23	TCP setup=Y, TEA=N, NVT=Y
00:0A:59:03:0E:AF		80.250.21.87	Damocles model MINI	80	TCP setup=N
00:0A:59:03:0C:2C		80.250.21.84	Poseidon model 1250	80	TCP setup=Y
00:0A:59:03:10:04	Jan test 485	192.168.1.148	Poseidon model 1250	80	TCP setup=Y
00:0A:59:03:0C:4B		80.250.21.86	Damocles model 2404	80	TCP setup=Y

Searching modules... done

3. **WWW interface of the device**

    • **To open the WWW interface of the device:**

o Enter the IP address into a web browser

o Click the IP address in UDP Config

o Click the underlined IP address in UDP

SETUP

    • The WWW page displays the current states of inputs and outputs.

    • Click the **"Graphic Flash SETUP"** link to open the graphical configuration interface (Flash Setup).
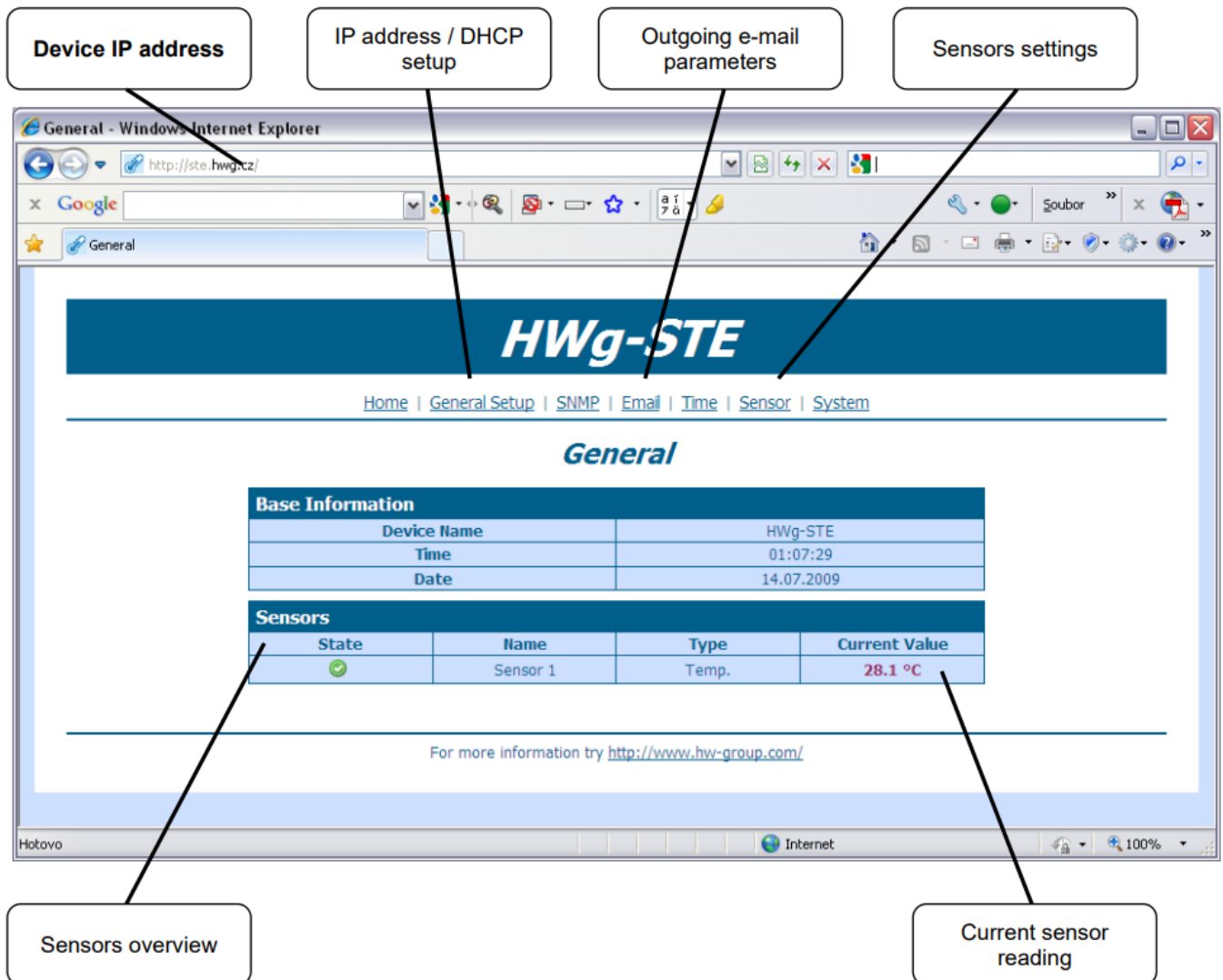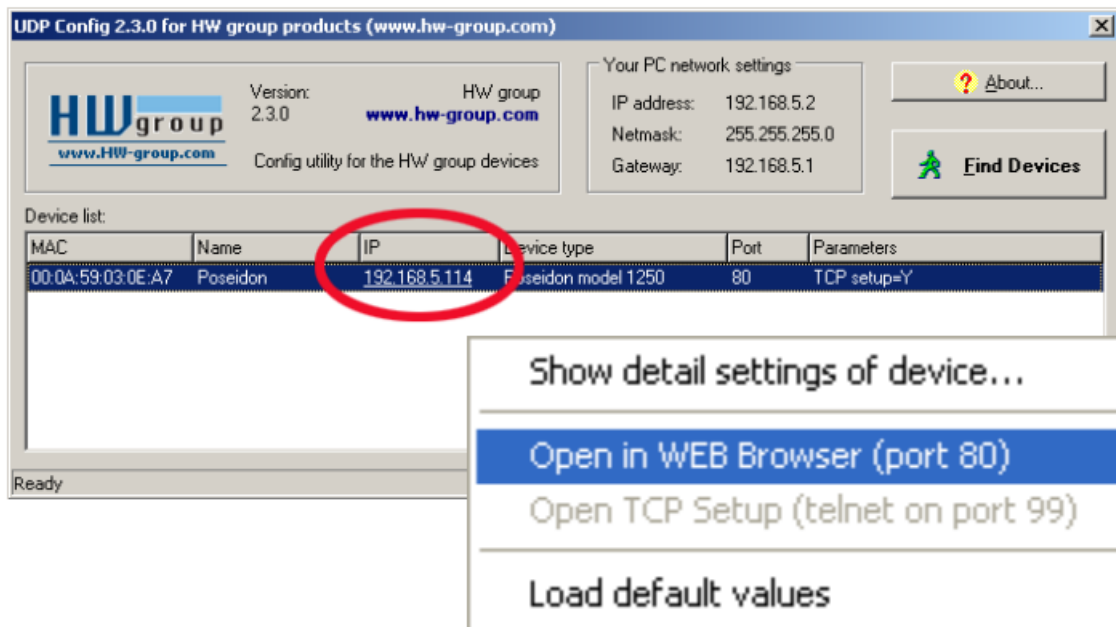
Product configuration

HWg-STE

General Setup

Device name
Identifies the device in e-mail and SNMP

User-defined footer. For example, administrator's contact details

Base

Name	Value	Description
Device Name	HWg-STE	0 to 16 characters
WWW Info Text	HWg-STE:For more information try www.hw-group.com	
Temperature unit	Celsius	Celsius/Fahrenheit/Kelvin
	Save	

Unit of temperature, for display and alarm inputs

Network

Name	Value	Description
DHCP	☐	DHCP Enable/Disable
IP Address	192.168.12.103	A.B.C.D
Network Mask	255.255.252.0	A.B.C.D
Gateway	192.168.12.1	A.B.C.D
DNS Primary	192.168.1.253	A.B.C.D
DNS Secondary		A.B.C.D
HTTP Port	80	Default 80
	Save	

Password to access the configuration

Security: Device Admin

Name	Value	Description
Username		Admin username/password for device configuration changes [0 to 16 characters]
Password		
	Save	

*added function:
Outgoing ping – function could be used as a "heartbeat". HWg-STE will ping the target IP address.
SNMP

HWg-STE

Port for SNMP polling

SNMP

SNMP device identification, same as the device name

General SNMP Settings

Name	Value	Description
System Name	HWg-STE	0 to 16 characters
System Location		0 to 16 characters
System Contact	HWg-STE:For more information try http://www.hw-group.com	
SNMP port	161	Default port 161

SNMP Access

Community	Read	Enable
public	☑	☑
private	☑	☐
	Save	

Email

SMTP server to use for sending e-mail. TLS is not supported

Email Settings

Name	Value	Description
SMTP Server	some.smtp.server	IP Address or DNS Name
SMTP Port	25	Default 25
Authentication	☐	Enable/Disable
Username		0 to 32 characters
Password		0 to 32 characters
FROM	user@domain.com	Device email address
Subject	subject	Beginning of email subject
TO	recipient@domain.com	Email Recipient
CC		Email Copy
	Save	

Send Test Email

Test

Sends a test e-mail to all entered recipients

HWg-STE:For more information try www.hw-group.com

Time

SNTP Setup

Name	Value	Description
SNTP Server	time.nist.gov	IP Address or DNS Name
Time Zone	+1	Number -12 ... +13
Summertime	☑	last Sun Mar 2:00 - last Sun Oct 2:00
Interval	1h	Sync period: Off/1h/24h
	Save	

SNTP synchronize

Sync

Time Setup

Name	Value	Description
Time	01 : 18 : 24	hh:mm
Date	01 . 01 . 1970	DD.MM.YYYY
	Save	

HWg-STE:For more information try www.hw-group.com

Sensors

Graph*
*Graph was available in firmware versions 1.0.12 up to 2.1.6.
Due to Adobe Flash technology's End of Life (31st of December 2020) and discontinued support in web browsers, the feature in firmware 2.1.7 has been permanently removed.
System

*added function:
Demo Mode – Active demo mode prevents any changes in your device configuration. Demo mode can be turned off in the same way after entering the password.

Technical specifications

- **Ethernet:** RJ45 – 10/100 BASE-T
- **2 sensor inputs**: RJ11 ports for connecting 1-Wire sensors (temperature, humidity…)
- **"SET" jumper:** configuration jumper for restoring the factory defaults
- **Device features**
  - **Alarms** by e-mail when a threshold is exceeded
  - **Remote monitoring** of the inputs states and values
- **Power supply**
  - **HWg-STE:** +5V / 250 mA
  - **HWg-STE PoE:** +5V / 250 mA (adaptor) or PoE IEEE 802.3af (Power over Ethernet)
- **Dimensions:** 65 x 80 x 30 [mm]
- **LED indicators in the RJ45 connector**
  - Green: Power / Status
    - Rapid flashing: DHCP network configuration in progress
    - Slow flashing: A sensor is in alarm
  - Orange: Link & Activity

ETHERNET	
Interface	RJ45 (10/100BASE-T) – Compatible with 10Mbps and 100Mbps networks
Supported protocols	IP: ARP, TCP/IP (HTTP, SNTP, SMTP), UDP/IP (SNMP)
SNMP compatibility	Ver:1.00 compatible, some parts of the ver 2.0 implemented
SENSORS	
Port / connector	S1, S2 / RJ11 (1-Wire Bus)
Type	HWg original accessories
Sensors	Up to 2 sensors in total
Sensors distance	Up to 60m total bus length with one or two sensors
POWER input	
Power supply	POWER 5V / 250 mA
Connector	Jack Ø3.5 x 1.35 / 10 [mm]

PoE (Power over Ether net)	RJ45 – IEEE 802.3af (for HWg-STE PoE only)
LED Status indicators	
POW ER / s tatus	Green – power OK (status = DHCP/Local alarm)
LINK & Acti vity	Yellow – Ethernet connectivity
JUMP ER	
SET	Load defaults: Power-on with jumper ON for 15 seconds, switch off and remove jumper
Other param eters	
Opera ting te mpera ture	−10 to +60 °C (+14 to +140 °F)
Dime nsions / Weig ht	65 x 80 x 30 [mm] / 500 g
EMC	FCC Part 15, Class B, CE – EN 55022, EN 55024, EN 61000

Mechanical dimensions
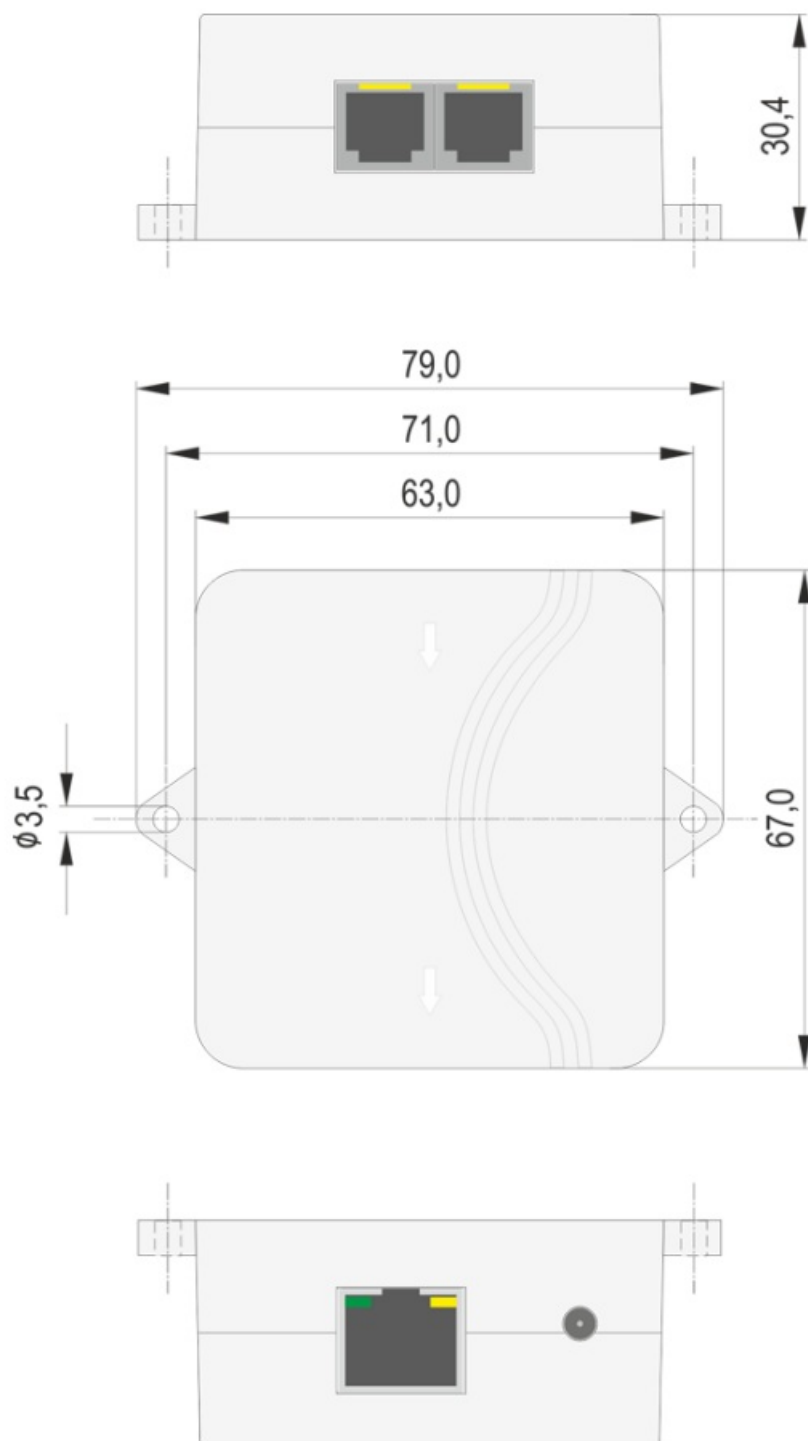
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HW group

www.HW-group.com
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V1.0.1 (fw 2.1.7)

Documents / Resources

HW group HWg-STE Thermometer [pdf] Instruction Manual
HWg-STE, HWg-STE PoE, HWg-STE Thermometer, HWg-STE, Thermometer

Manuals+,