

HWg-STE

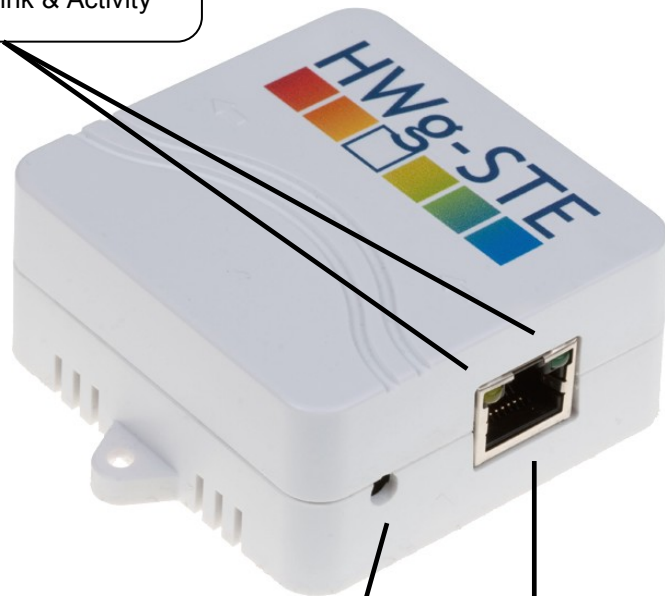
HWg-STE PoE

MANUAL



HWg-STE connections

LED indicators
 Green: Power & Mode
 Yellow: Link & Activity

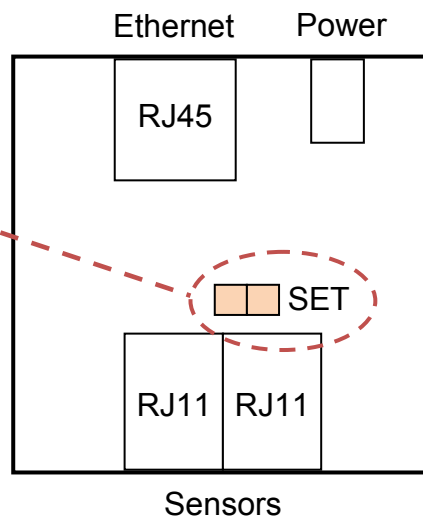


SENSORS
 S1 and S2 ports for connecting temperature or humidity sensors.
 - Max. distance with 1 sensor is 60m
 - Max. total length with 2 sensors is 60m

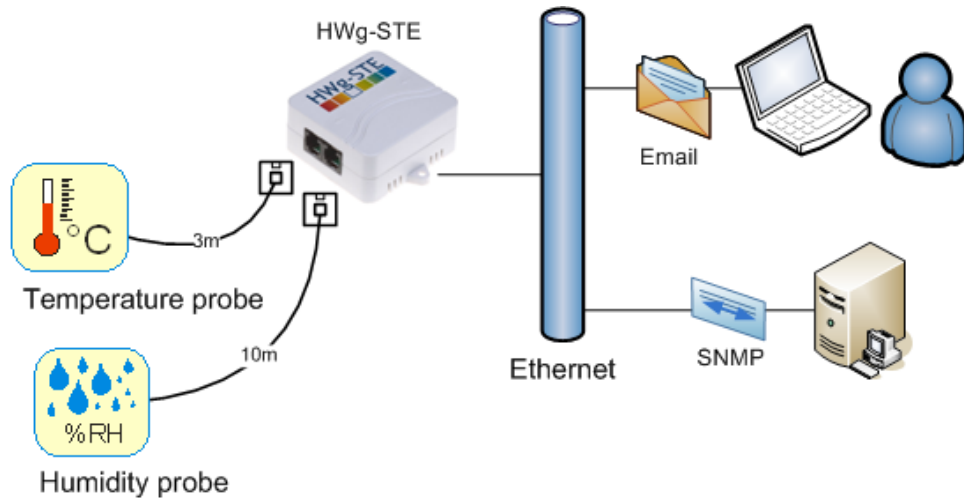
POWER input
 5VDC supply
 Use the supplied power adapter

ETHERNET
 100 Mbps
 *) PoE power for HWg-STE PoE

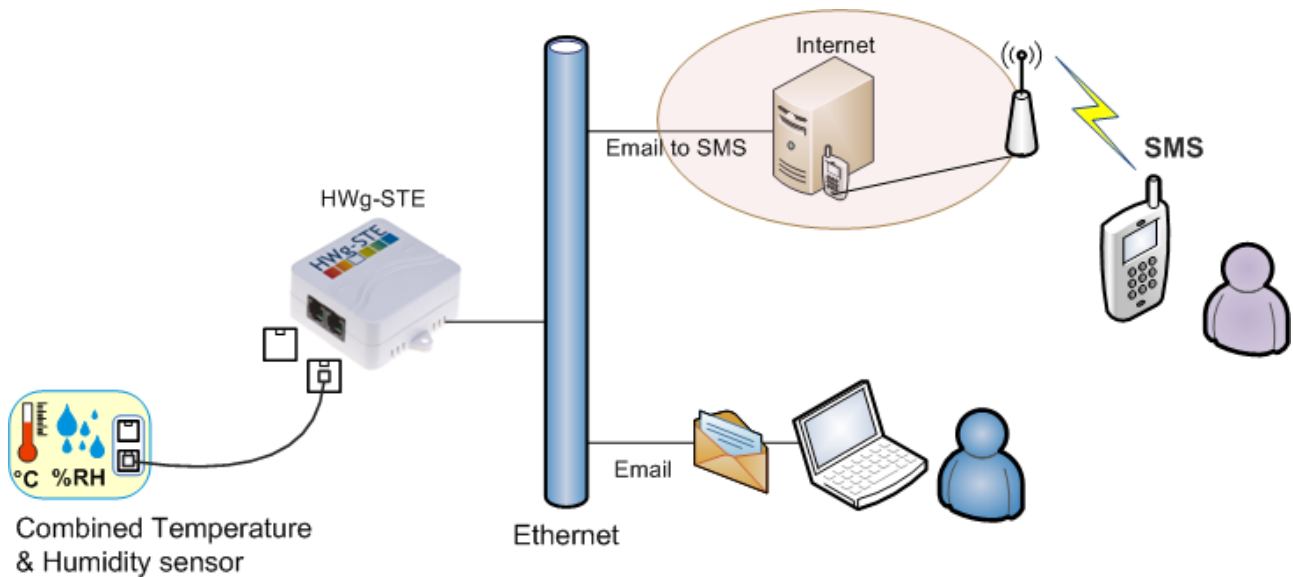
JUMPER for restoring factory defaults
 With the jumper in place, factory defaults are restored within 15 s after powering up. Remove the jumper afterwards.
DO NOT LEAVE THE JUMPER IN PLACE PERMANENTLY!



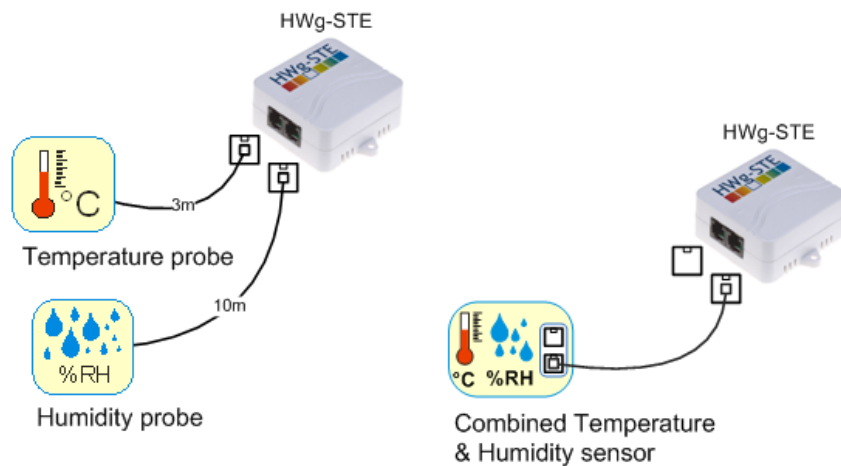
Recommended connections



Forwarding alarms to SMS (via the Email-2-SMS service):



Sensor connection options:



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 in to 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.HW-group.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.

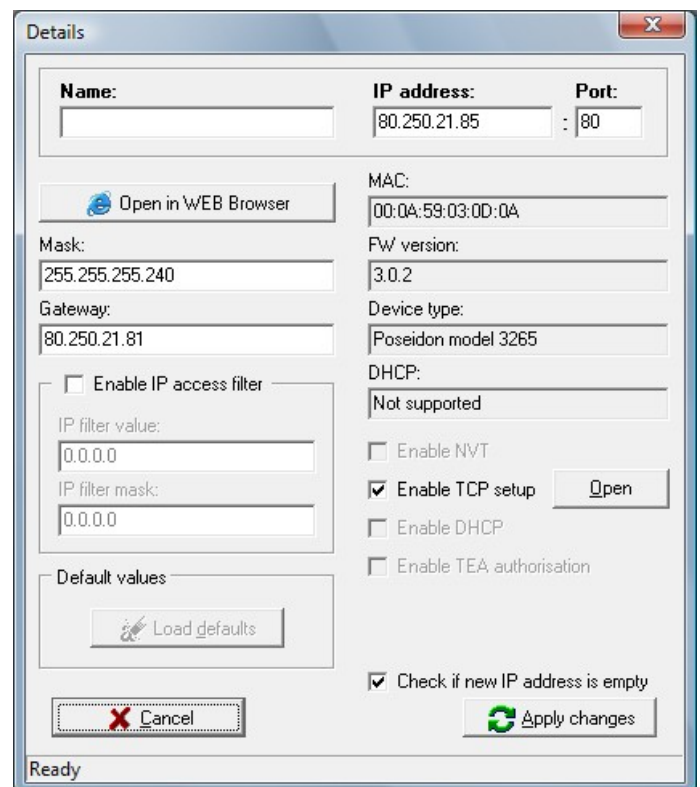
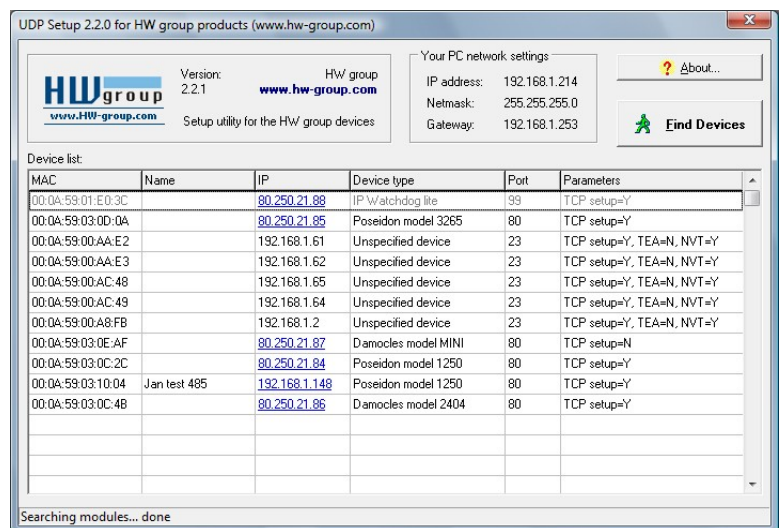
Configure network parameters

- 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

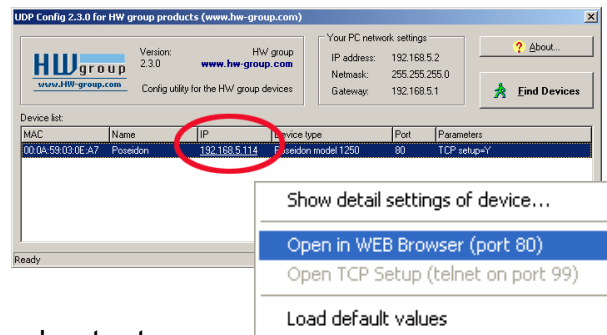
- Right-click a device MAC address. Within 60 seconds after powering up the unit, factory defaults can be restored using UDP Config.
- Disconnect the power jack, connect the jumper near the RJ11 sockets, power up the device and wait 15 seconds. Then, disconnect the power and disconnect the jumper. The device is ready in its factory default configuration.



First steps

3) WWW interface of the device

- To open the WWW interface of the device:
 - Enter the IP address into a web browser
 - Click the IP address in UDP Config
 - Click the underlined IP address in UDP SETUP
- The WWW page displays current states of inputs and outputs.
- Click the “**Graphic Flash SETUP**” link to open the graphical configuration interface (Flash Setup).



Device IP address

IP address / DHCP setup

Outgoing e-mail parameters

Sensor settings

Sensor overview

Current sensor reading

Base Information	
Device Name	HWg-STE
Time	01:07:29
Date	14.07.2009

Sensors			
State	Name	Type	Current Value
✓	Sensor 1	Temp.	28.1 °C

Product configuration

HWg-STE

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Device name
Identifies the device in e-mail and SNMP

General Setup

Base		
Name	Value	Description
Device Name	<input type="text" value="HWg-STE"/>	0 to 16 characters
WWW Info Text	<input a>"="" http:="" type="text" value="HWg-STE:For more information try www.hw-group.com<=""/>	
Temperature unit	<input type="text" value="Celsius"/>	Celsius/Fahrenheit/Kelvin
<input type="button" value="Save"/>		

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

Unit of temperature, for
display and alarm inputs

Network		
Name	Value	Description
DHCP	<input type="checkbox"/>	DHCP Enable/Disable
IP Address	<input type="text" value="192.168.12.103"/>	A.B.C.D
Network Mask	<input type="text" value="255.255.252.0"/>	A.B.C.D
Gateway	<input type="text" value="192.168.12.1"/>	A.B.C.D
DNS Primary	<input type="text" value="192.168.1.253"/>	A.B.C.D
DNS Secondary	<input type="text"/>	A.B.C.D
HTTP Port	<input type="text" value="80"/>	Default 80
<input type="button" value="Save"/>		

Password to access device
configuration

Security: Device Admin		
Name	Value	Description
Username	<input type="text"/>	Admin username/password for device configuration changes [0 to 16 characters]
Password	<input type="text"/>	
<input type="button" value="Save"/>		

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

SNMP

HWg-STE

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SNMP

Port for SNMP polling

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 device identification, equal to device name

SNMP Access		
Community	Read	Enable
public	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
private	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Email

HWg-STE

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Email

SMTP server to use for sending e-mail

Email Settings		
Name	Value	Description
SMTP Server	some.smtp.server	IP Address or DNS Name
SMTP Port	25	Default 25
Authentication	<input type="checkbox"/>	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

Send Test Email

Sends a test e-mail to all configured recipients

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Time



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Time

SNTP Setup		
Name	Value	Description
SNTP Server	<input type="text" value="time.nist.gov"/>	IP Address or DNS Name
Time Zone	<input type="text" value="+1"/>	Number -12 ... +13
Summertime	<input checked="" type="checkbox"/>	last Sun Mar 2:00 - last Sun Oct 2:00
Interval	<input type="text" value="1h"/>	Sync period: Off/1h/24h
<input type="button" value="Save"/>		

SNTP synchronize	
<input type="button" value="Sync"/>	

Time Setup		
Name	Value	Description
Time	<input type="text" value="01"/> : <input type="text" value="18"/> : <input type="text" value="24"/>	hh:mm
Date	<input type="text" value="01"/> . <input type="text" value="01"/> . <input type="text" value="1970"/>	DD.MM.YYYY
<input type="button" value="Save"/>		

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Sensors



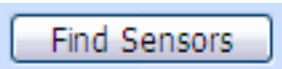
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Sensors

Sensor list									
State	ID	Type	Name	Current Value	Save Range	Hysteresis	Email	Sensor Serial Code	Del.
<input checked="" type="checkbox"/>	1	Temp.	<input type="text" value="Sensor 1"/>	32.5 °C	<input type="text" value="10.0"/> ~ <input type="text" value="60.0"/>	<input type="text" value="0.0"/>	<input type="checkbox"/>	28edc7bf010000ae	<input type="button" value="delete"/>
<input type="button" value="Save"/>					<input type="button" value="Find Sensors"/>				
									delete all

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Deletes the sensor from the list



- Scans for changes in connected sensors

Graph

Graf is available in firmware 1.0.12 or higher

HWg-STE

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Graph

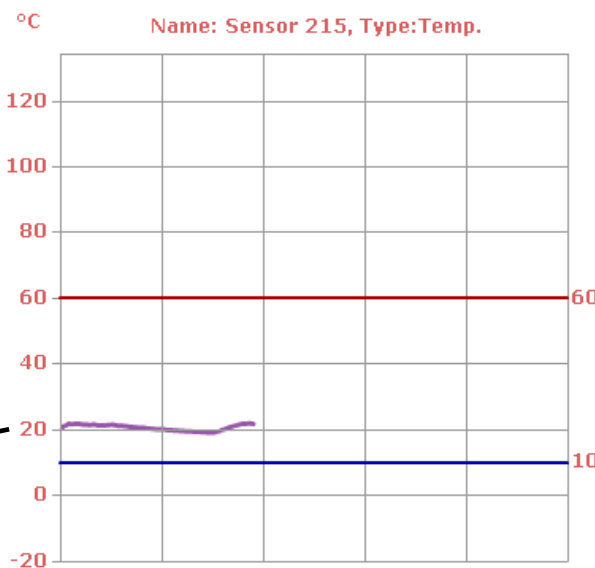
Graph Setup		
Name	Value	Description
Graph source	Sensor 215	
Period	900 [s]	Time in Second, 0 = Disabled

Save & Clear

Choose shown sensor. Values stored in RAM memory.

Value samples period for the graph

Value graph. Mouse cursor show time and value of the sample.



Save Range for the selected sensor.

The next reload in 890 seconds.

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System



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List of SNMP variables

System

Download	
Description	File
Backup configuration	HWg-STE_Config.bin
Online values in XML	values.xml
SNMP MIB Table	HWg-STE.mib
TXT list of common SNMP OIDs	HWg-STE_OID.txt

System	
Name	Value
Version	1.0.0
Compile time	Jun 22 2009, 12:40:28
Build	6475
Vendor ID	0
UpTime	23 min
Upload Firmware or Configuration	<input type="text"/> <input type="button" value="Procházet..."/> <input type="button" value="Upload"/>

Firmware update

Factory Default	System Restart
<input type="button" value="Default"/>	<input type="button" value="Restart"/>

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Technical specifications

- **Ethernet:** RJ45 – 10/100 BASE-T
- **2 sensor inputs:** RJ11 ports for connecting 1-Wire sensors (temperature, humidity...)
- **"SET" jumper:** configuration jumper to restore factory defaults
- **Device features**
 - **Alarms** by e-mail when a threshold is exceeded
 - **Remote monitoring** of input states and the temperature sensor
- **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, SNTTP, 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 Ethernet)	RJ45 - IEEE 802.3af (for HWg-STE PoE only)
LED Status indicators	
POWER / status	Green - power OK (status = DHCP/Local alarm)
LINK & Activity	Yellow - Ethernet connectivity
JUMPER	
SET	Load defaults: Power-on with jumper ON for 15 seconds, switch off and remove jumper
Other parameters	
Operating temperature	-10 to +60 °C (+14 to +140 °F)
Dimensions / Weight	65 x 80 x 30 [mm] / 500 g
EMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000