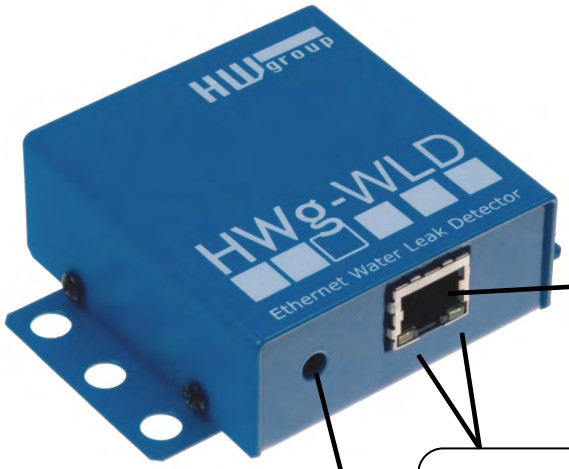
HWg-WLD

MANUAL



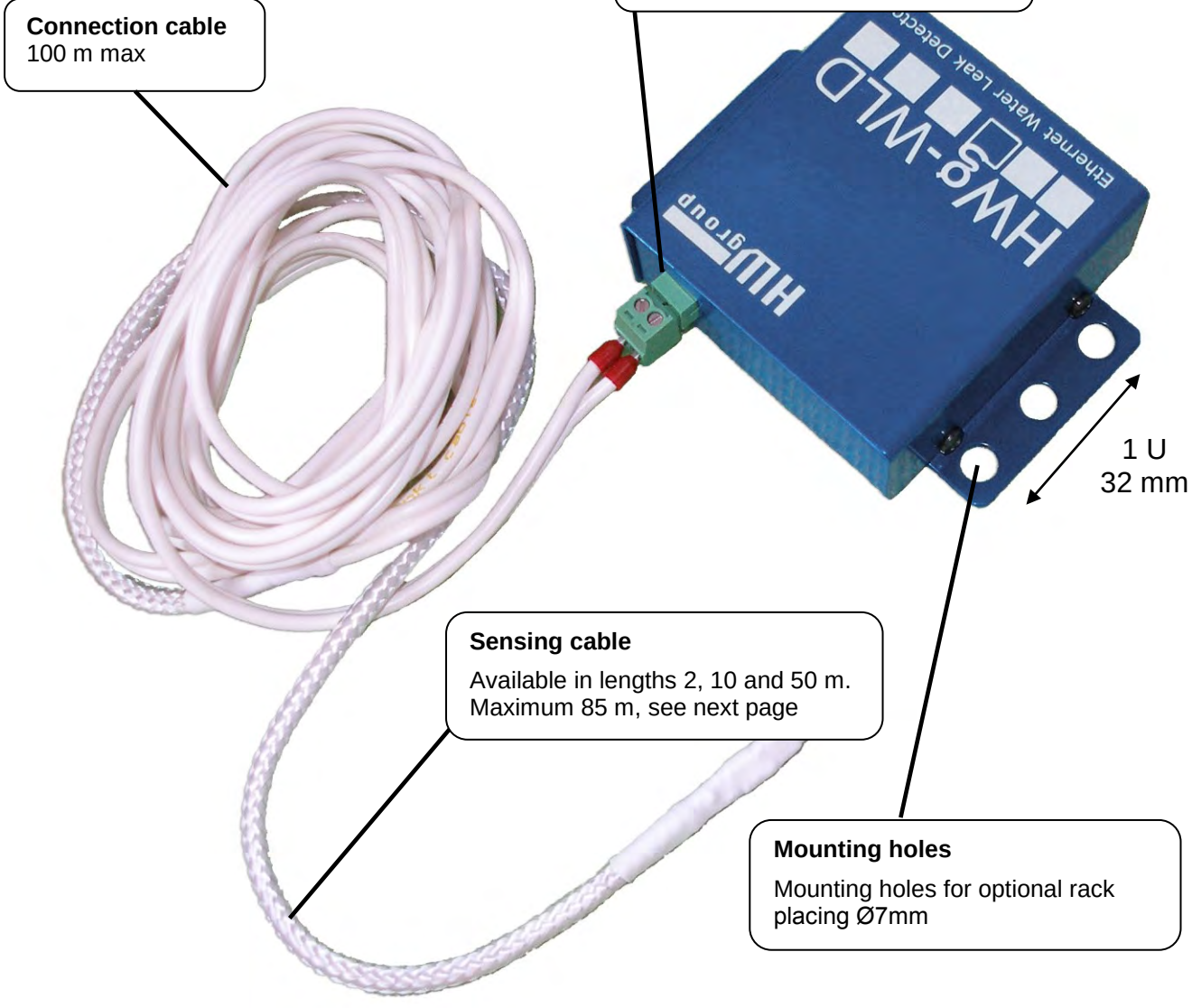
ETHERNET
10/100 Mbps

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

POWER input
5V DC supply
Use the supplied power adapter

SENSOR
Connector for sensing cable

Connection cable
100 m max

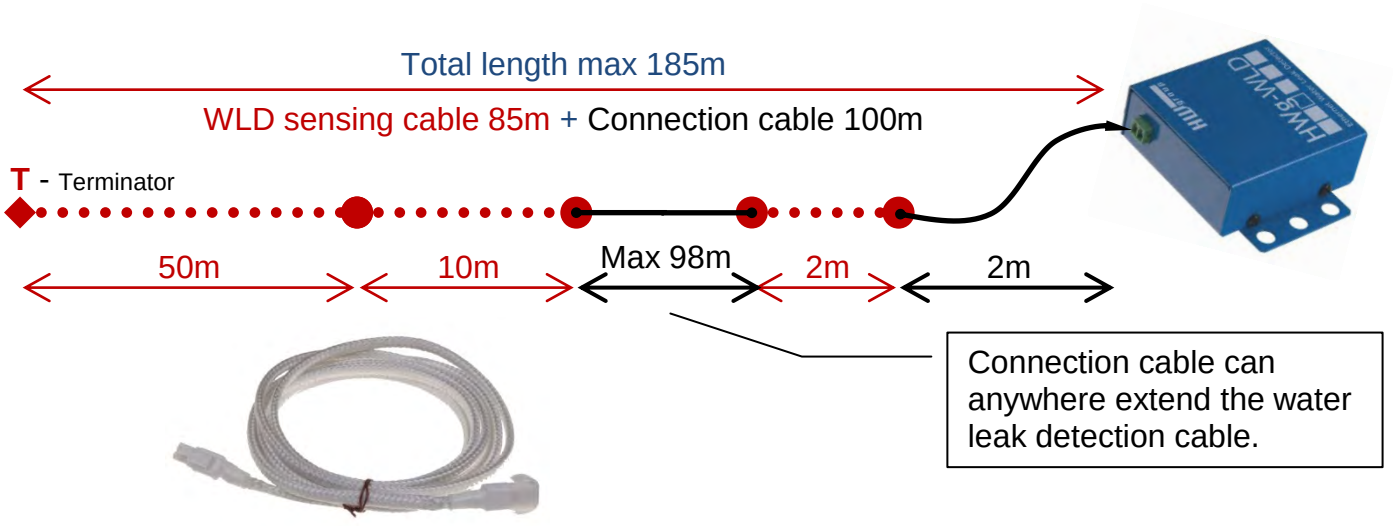


Sensing cable
Available in lengths 2, 10 and 50 m.
Maximum 85 m, see next page

Mounting holes
Mounting holes for optional rack placing Ø7mm

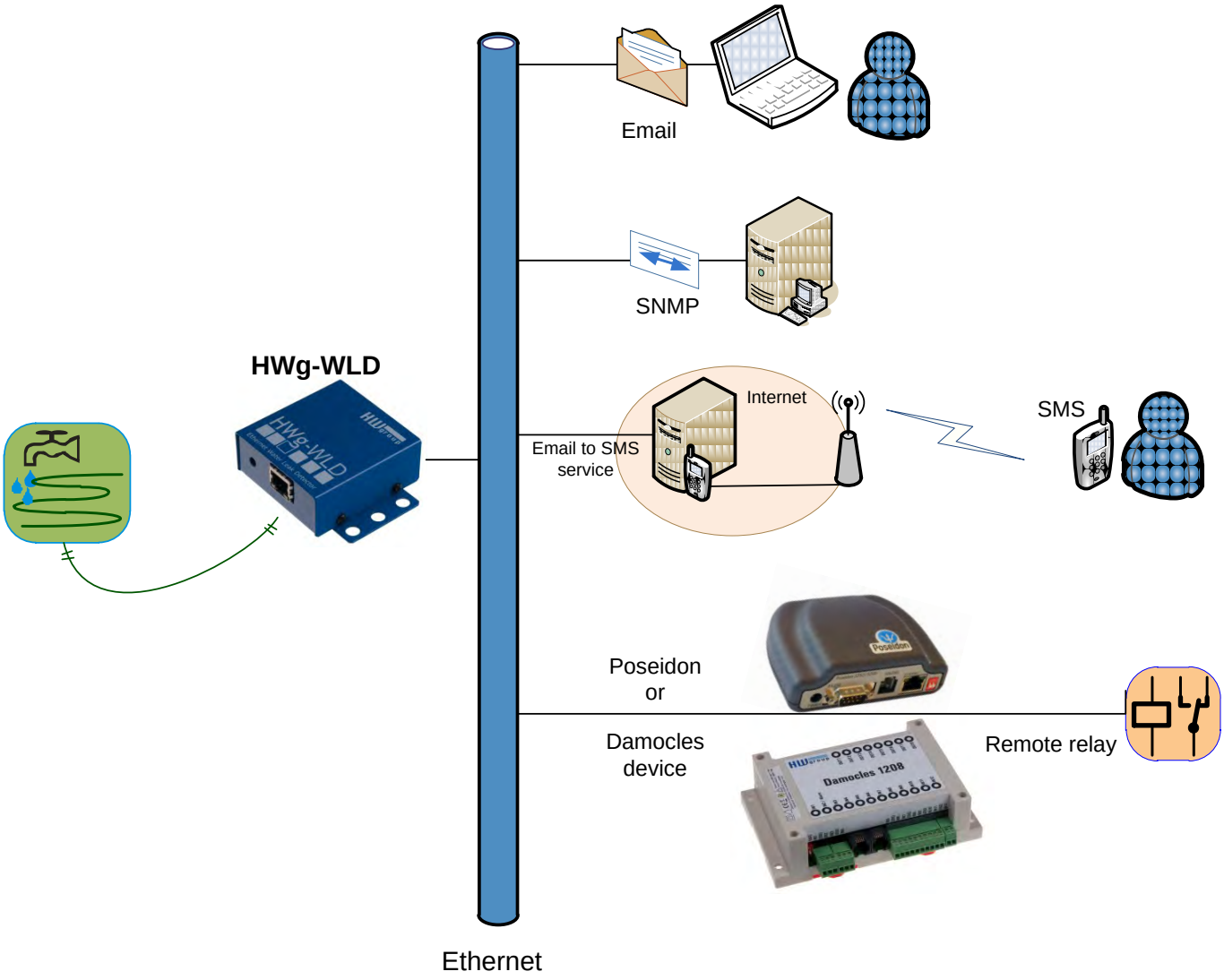
Order the water leak detecting cable in length you need

- **WLD A connection cable 2m** (HWg-WLD connection cable + Terminator)
- **WLD sensing cable A - 2m**
- **WLD sensing cable A - 10m**
- **WLD sensing cable A - 50m**



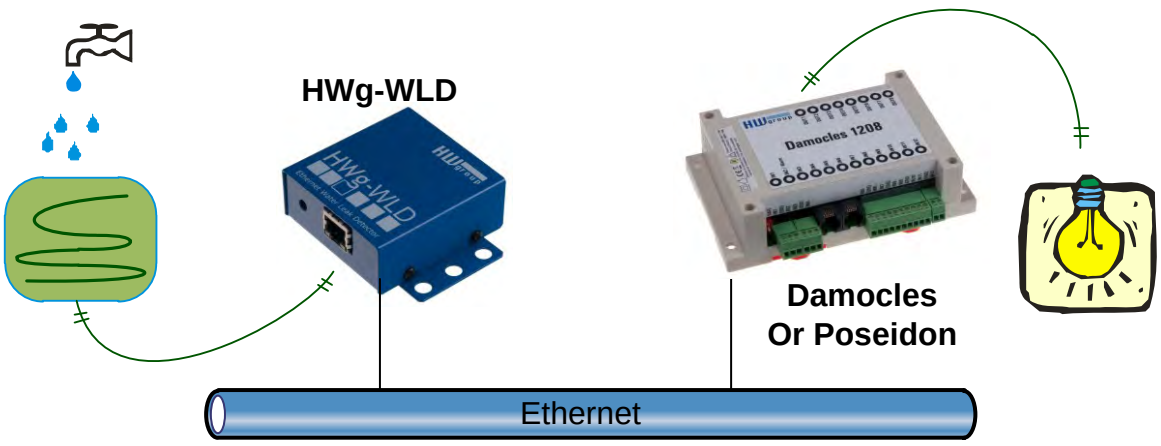
OID	Description
600 417	**WLD sensing cable A - 2+2m** Water leak detection cable pack. Connection cable 2m (600464) and 2m of Detection cable (600418). Total length is 4 m (13 ft): 2 m (6.5 ft) leader cable + 2 m (6.5ft) sensing cable, terminated.
600 467	**WLD sensing cable A - 2+10m** Water leak detection cable pack. Connection cable 10m (600465) and 10m of Detection cable (600465). Total length is 12 m (40 ft): 2 m (6.5 ft) leader cable + 10 m (33 ft) sensing cable, terminated
600 468	**WLD sensing cable A - 2+50m** Water leak detection cable pack. Connection cable 10m (600465) and 50m of Detection cable (600466). Total length is 52 m (170,5 ft): 2 m (6.5 ft) leader cable + 50 m (164 ft) sensing cable, terminated.
600 496	**WLD A prolong cable 5m** Prolong non sensitive cable 5m for WLD type A cable. Can be extended up to 100m in total.
600 464	**WLD A connection cable 2m** Leader cable 2m for connection HWg-WLD to detection cable type "A". Terminator included.
600 418	**WLD sensing cable A - 2m (photo)** Water Leak Detection sensing cable. Water leakage detected along the entire length of the sensing cable. Sensing cable can be extended by other piece of sensing cable. To connect with HWg-PWR the Connection cable 600 464 is required.
600 465	**WLD sensing cable A - 10m** Water Leak Detection sensing cable. Water leakage detected along the entire length of the sensing cable. Sensing cable can be extended by other piece of sensing cable. To connect with HWg-PWR the Connection cable 600 464 is required.
600 466	**WLD sensing cable A - 50m** Water Leak Detection sensing cable. Water leakage detected along the entire length of the sensing cable. Sensing cable can be extended by other piece of sensing cable. To connect with HWg-PWR the Connection cable 600 464 is required.

HWg-WLD usage



Switch Remote Relay over the network

You can switch on remote alarm signal if water detected over the network.
Details on the last page of starting guide section.



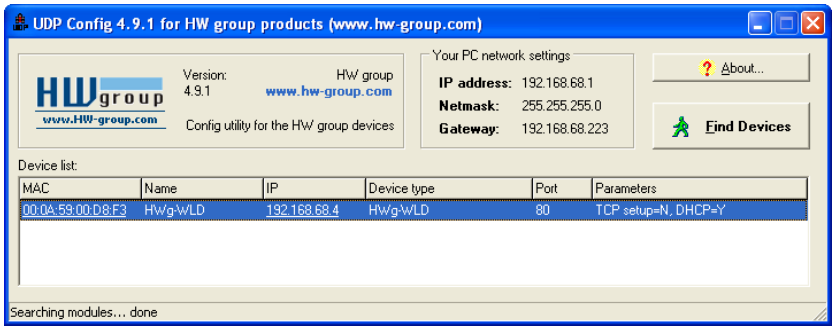
First steps

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-WLD 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.

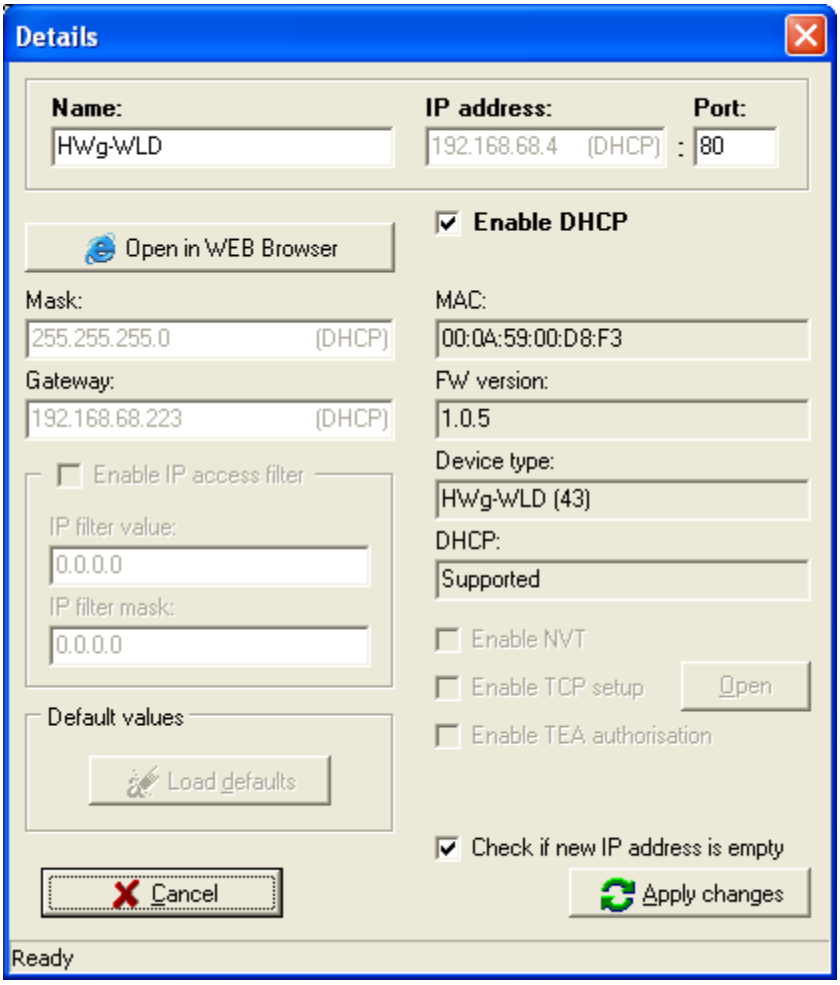
2) Configuring the IP address – UDP Config

UDP Config utility – see root directory of the supplied CD (Windows and Linux versions).
Alternatively download from 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.



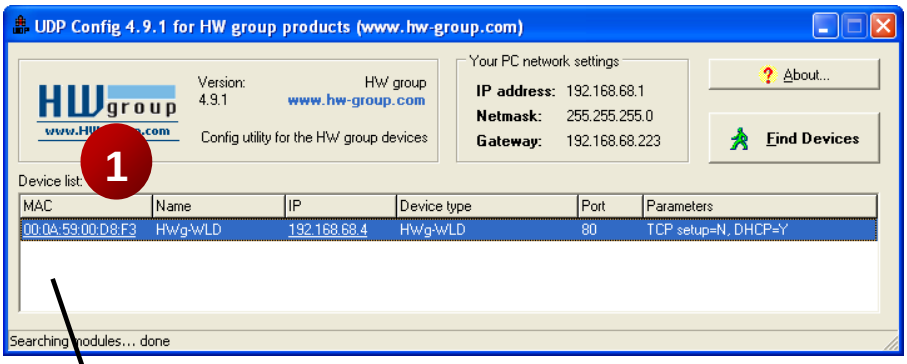
Configure network parameters

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

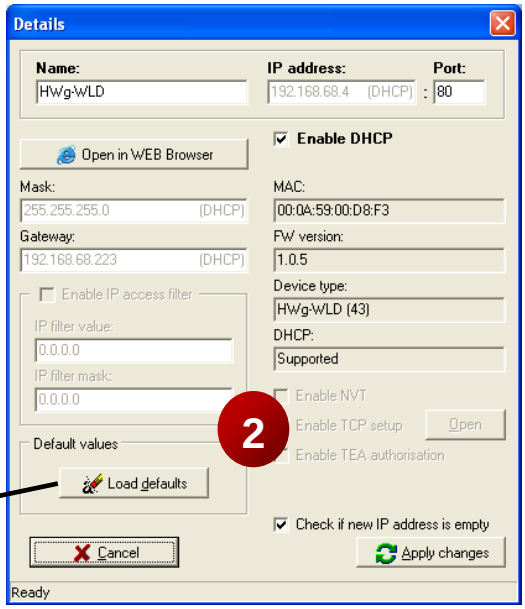
Click the **Apply Changes** button to save the settings.

First steps

Restoring software factory defaults

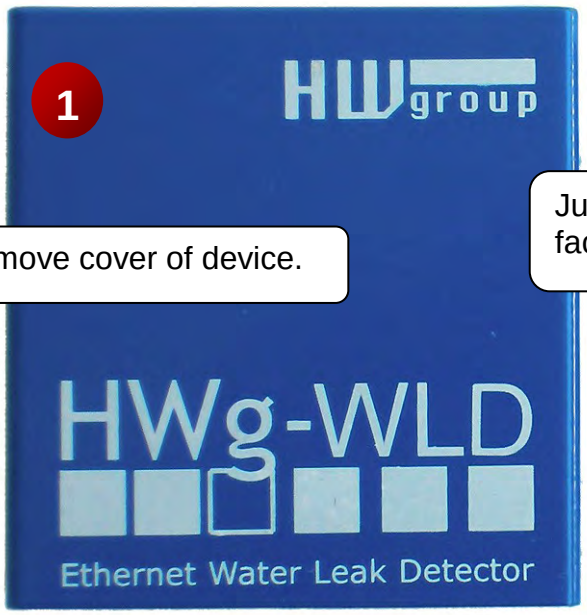


In **UDP Config** click a device **MAC** address within **60 seconds** after powering up the unit

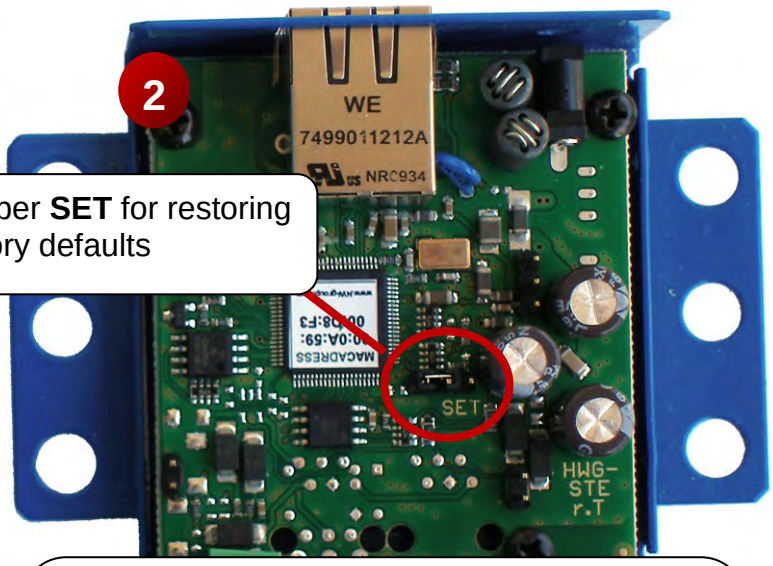


Click button **Load defaults** to restore factory defaults.

Restoring hardware factory defaults



Remove cover of device.



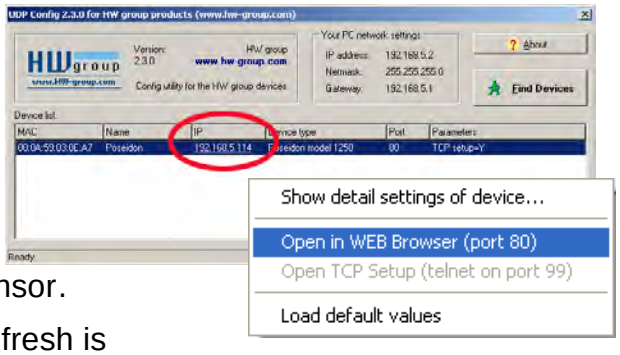
Jumper **SET** for restoring factory defaults

With the jumper in place, factory defaults are restored within 15 s after powering up. Remove the jumper afterwards.

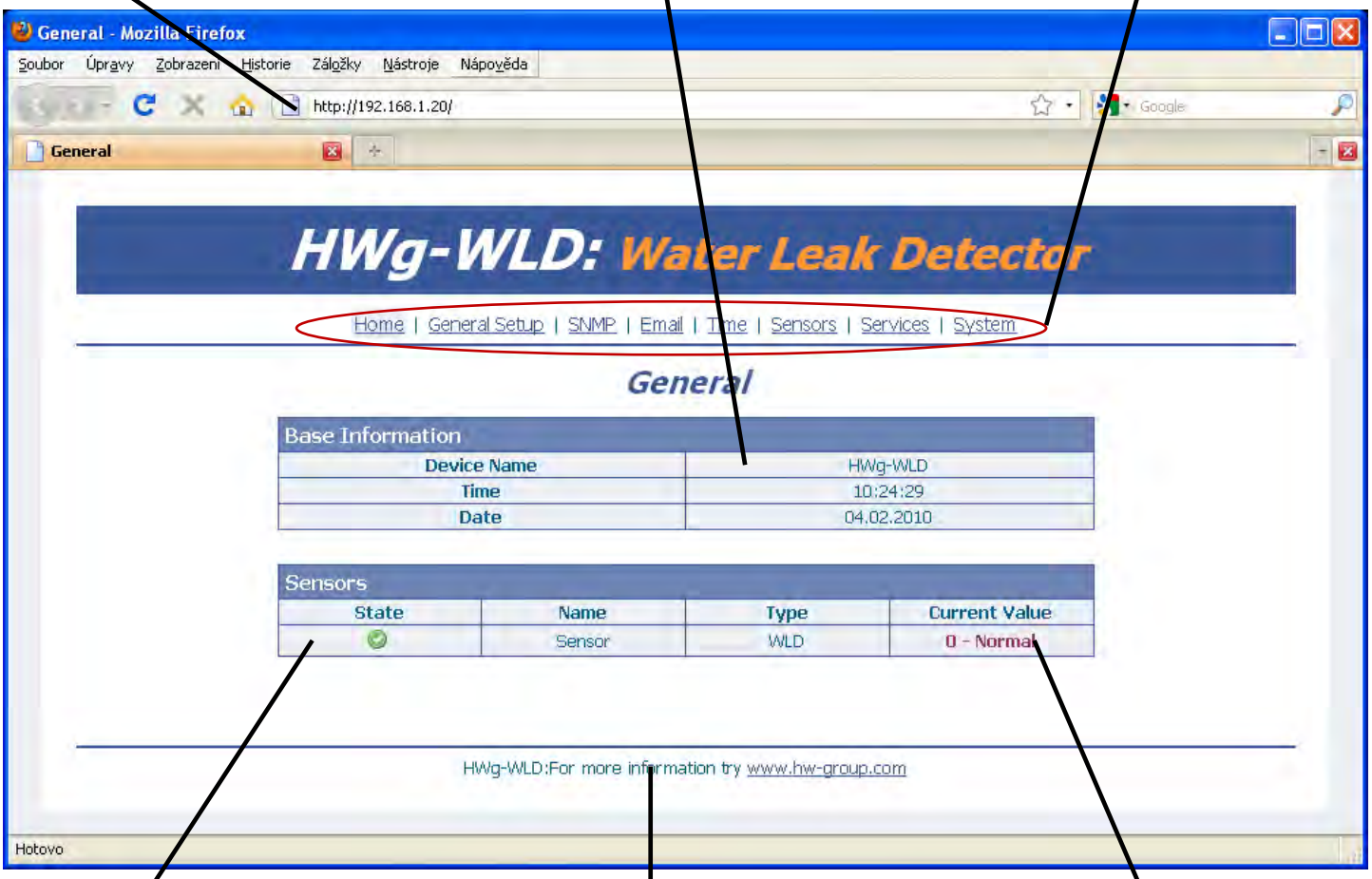
DO NOT LEAVE THE JUMPER IN PLACE PERMANENTLY!

First steps

3) WWW interface of the device

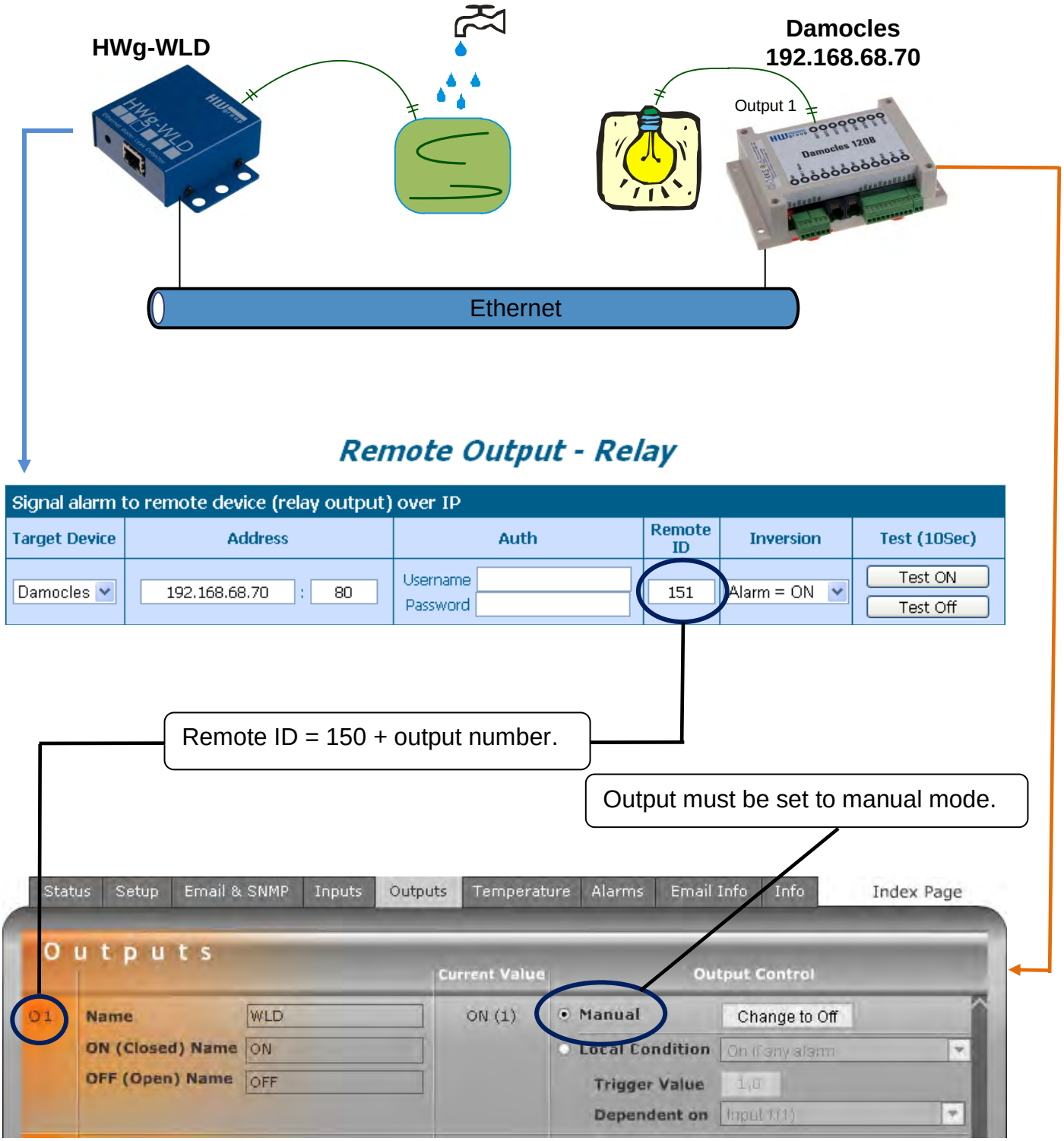


- **To open the WWW interface of the device**:
  - Enter the IP address into a web browser
  - Click the underlined IP address in UDP Config
- The WWW page displays current states of leak sensor.
- Home page is refreshed periodically, no manual refresh is required.



First steps

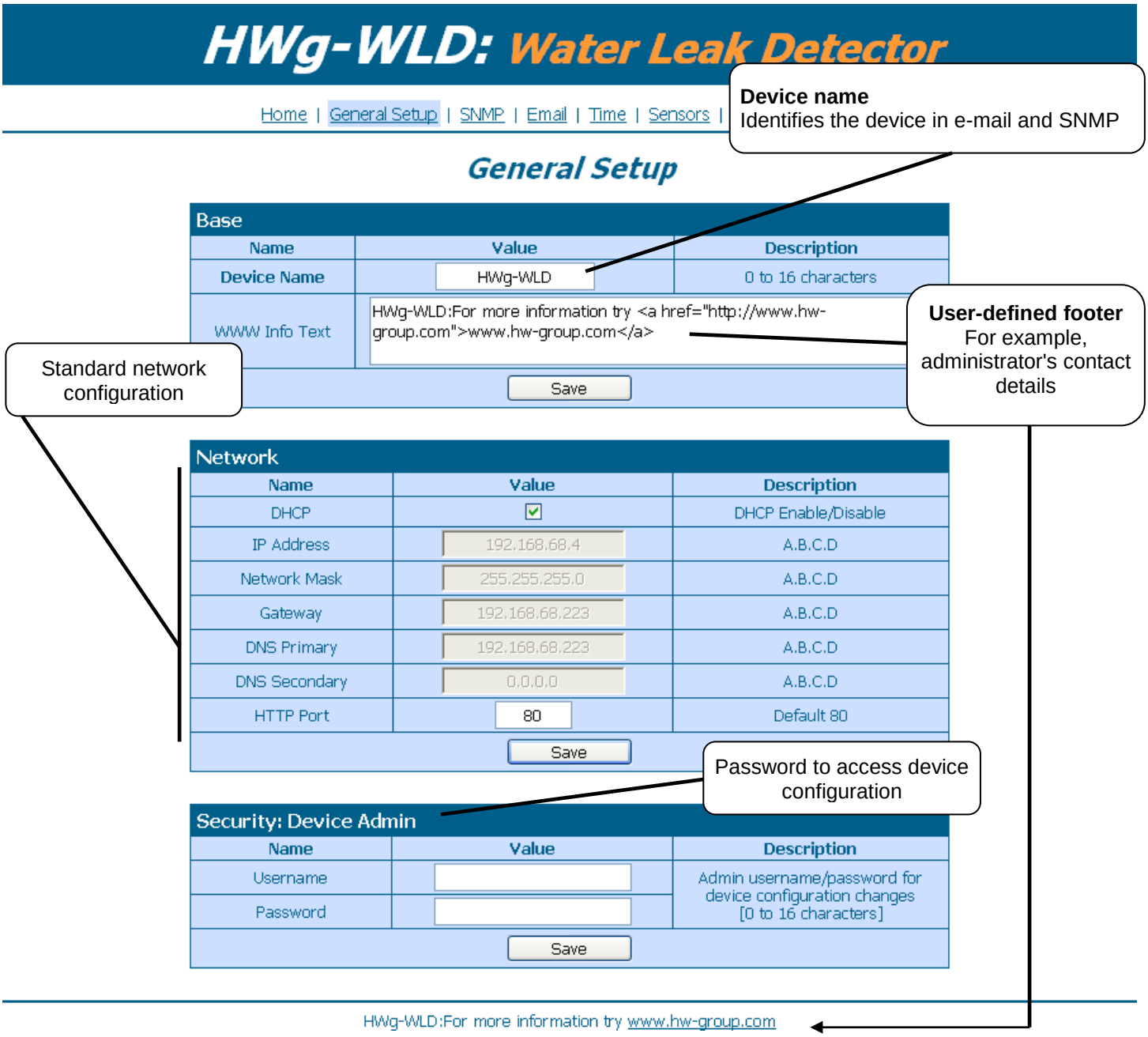
Switch Remote Relay output over the network



- State 1-normal is equal to alarm off; all other states are equal to alarm on.
- **Username** and **Password** must allow writing to **Target Device**.
- Remote output is realized via XML communication.
- Remote output is synchronized immediately after change happens. Current state is resent to target device (e.g. Damocles) every 10 seconds.
- Upgrade to last firmware version of both devices is highly recommended!

Product configuration

General setup



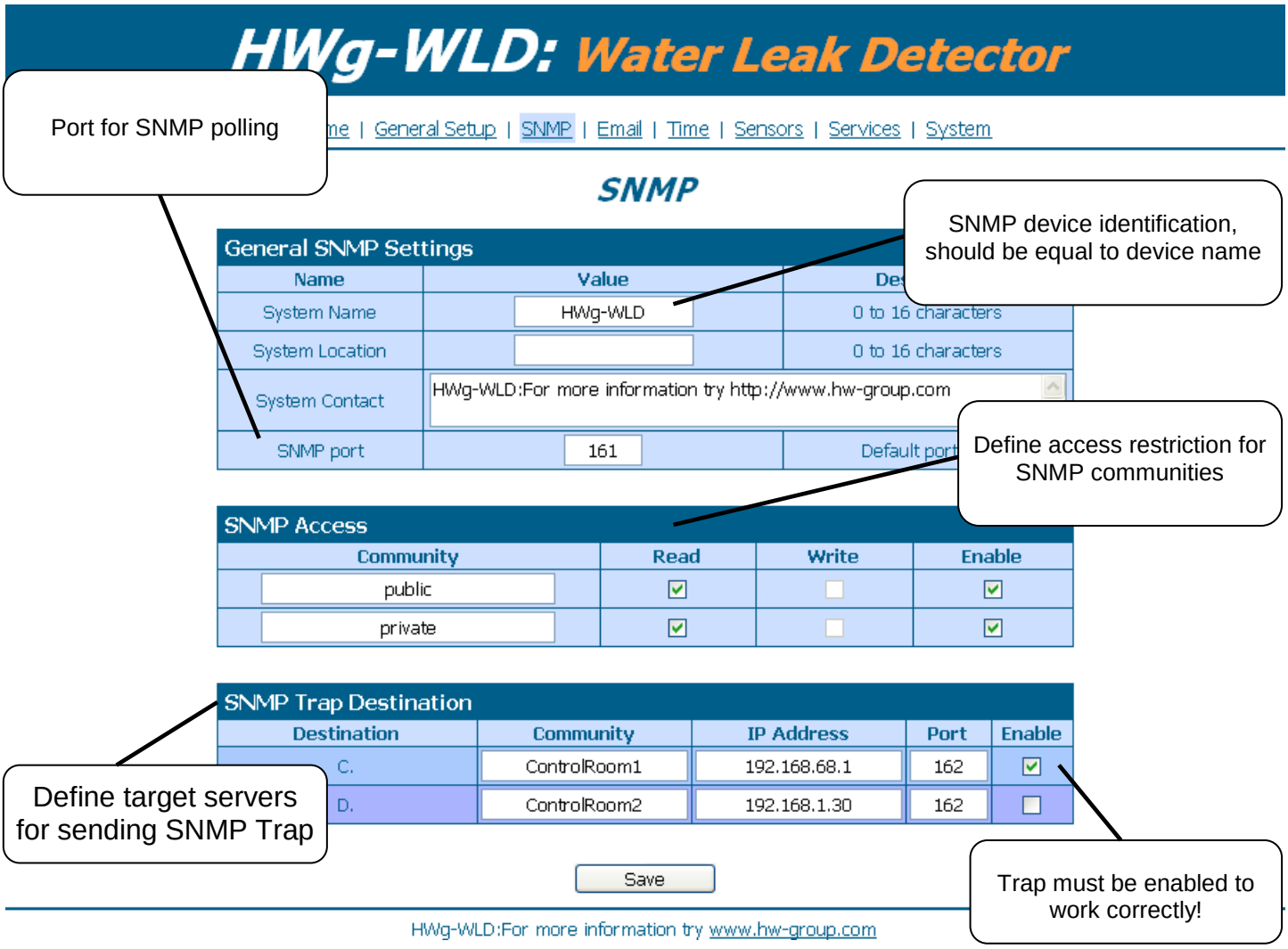
Protect and hide your settings

All settings will be inaccessible for visitors after you enter Username and Password.
Visitors can display home page only!

Lock your settings

If you want lock settings but show it to public use Demo mode (see page System) instead.

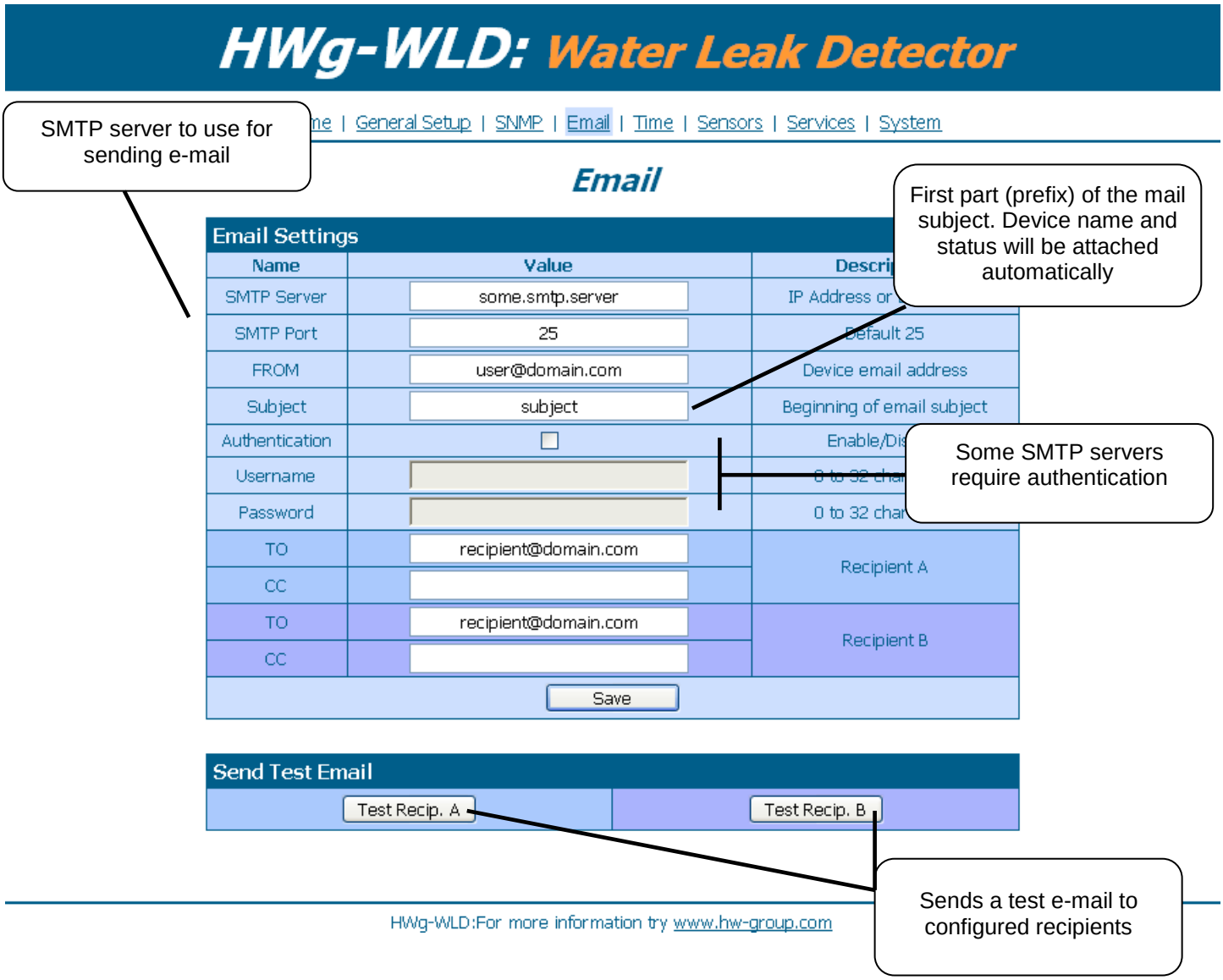
SNMP



SNMP Write

HWg-WLD device doesn't accept SNMP write request, column **Write** in section **SNMP Access** is always disabled.

Email



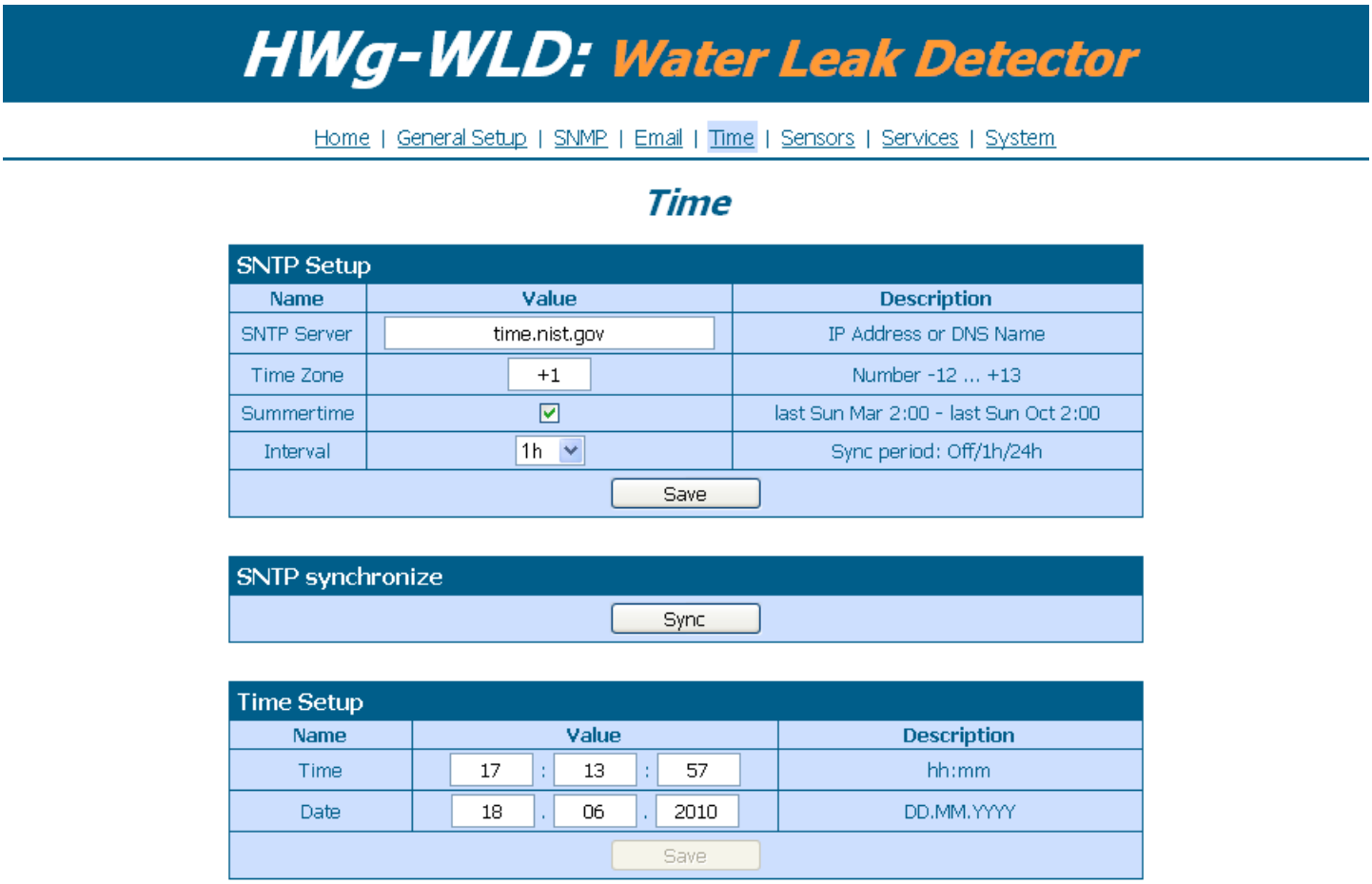
Sorting email using field Subject

Subject can be used .to easily create sorting rules for incoming mails or handle events generated by your SMS gate (in case Email-2-SMS service).

TO and CC limits

Fields **TO** and **CC** can hold one email address each. No address lists are allowed.

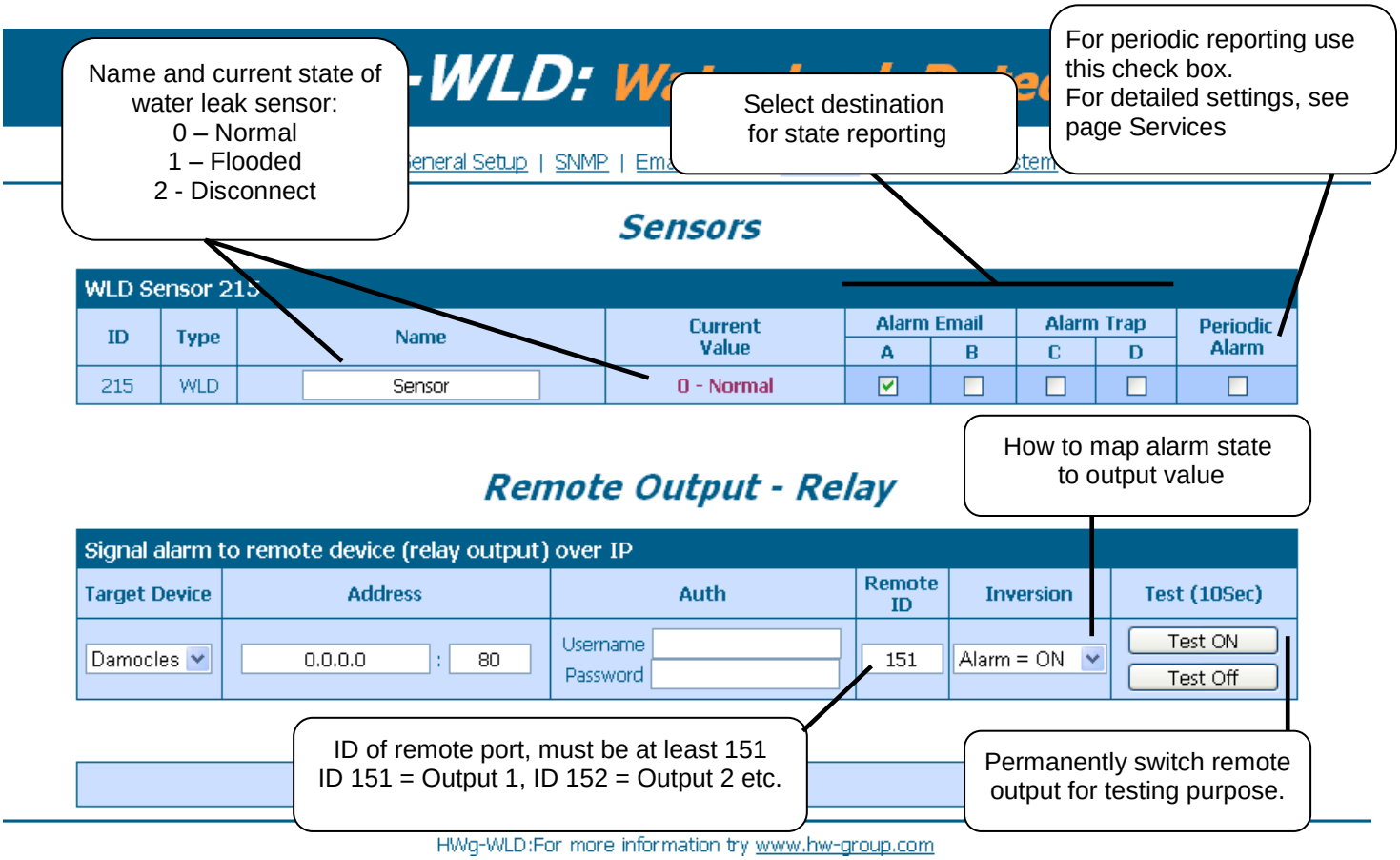
Time



Check your DNS settings

- If time synchronization doesn't work by default, check your DNS server setting, or specify IP address in field **SNTP Server** instead of domain name.

Sensors



Additional parameters

Set additional parameters on page **Services** prior to enable **Periodic Alarm**!

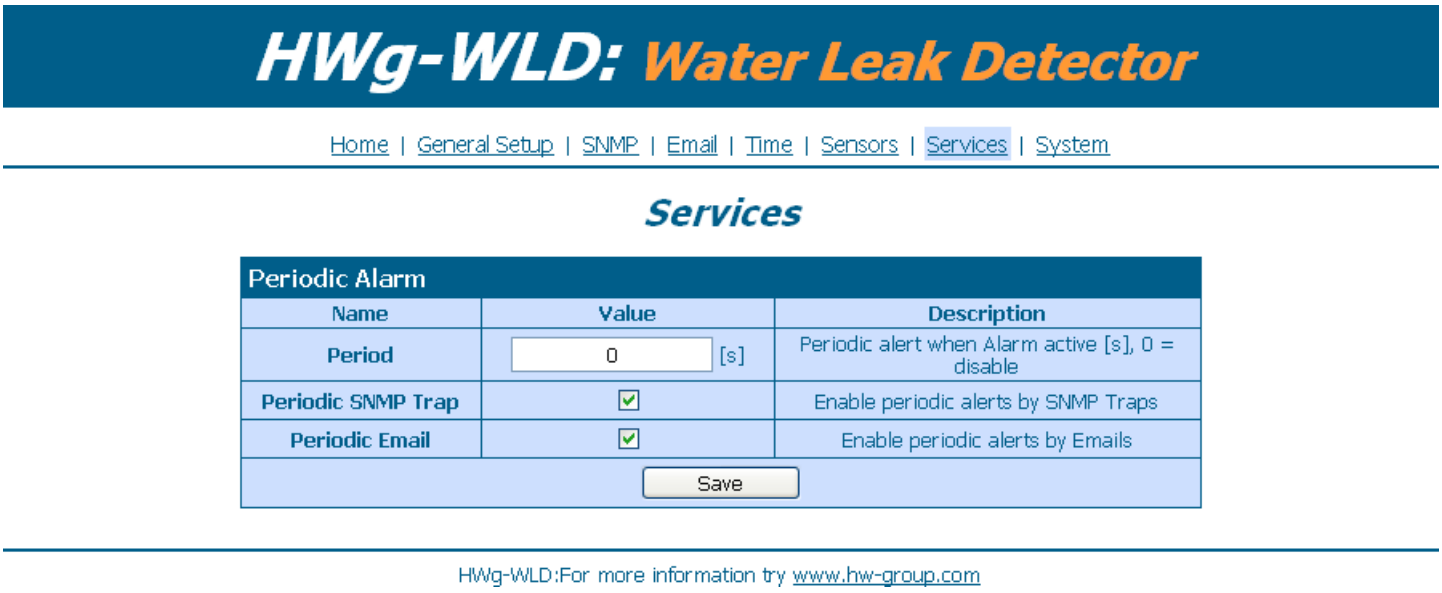
Single alarm

If you disable **Periodic alarm**, the alarm will be reporting only once (for each change).

Remote output

Current sensor state can open and close remote relay (e.g. device from family Poseidon or Damocles).

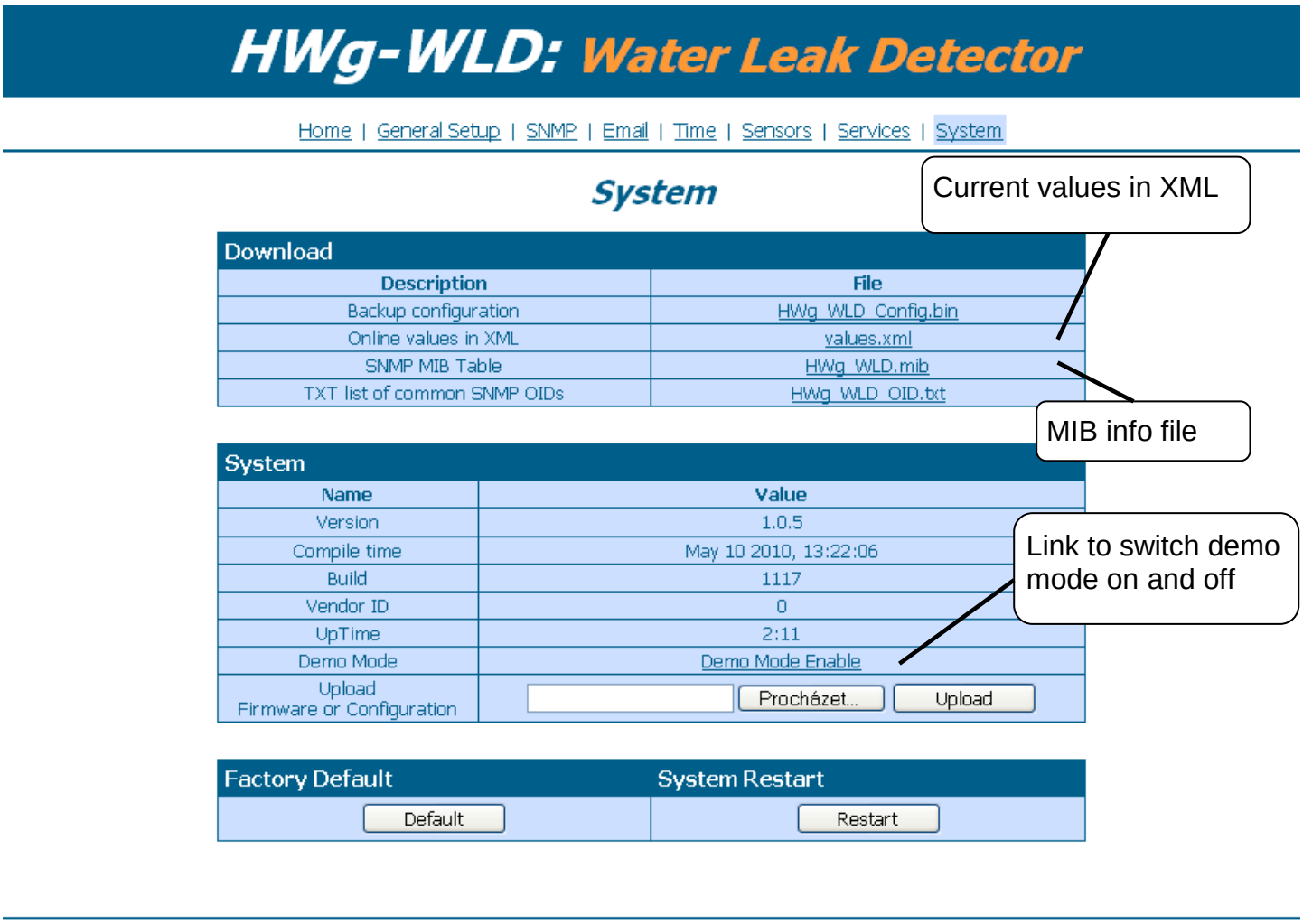
Services



Period is common

Specified **Period** is common for **SNMP traps** and **emails.**

System



Lock your settings

Demo mode allows you protect all device settings from changes. In this mode all visitors can freely browse and see all pages, but no configuration change is accepted. You can easily put device to public internet and nobody will change the configuration.

Technical specifications

- **Ethernet**: RJ45 – 10/100 BASE-T
- **1 sensor input:** 2 pins connector for connection sensing cable
- **Device features**
  - **Alarms** by e-mail or SNMP Trap when leak sensor state changed
  - **Remote output or relay** (in Poseidon or Damocles device) can be controlled over network by sensor state
  - **Remote monitoring** of leak sensor
  - **Rack mounting** possibility
- **Power supply:** +5V / 250 mA
- **Dimensions:** 65 x 88 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) – 10 Mbit or 100 Mbit network compatible
Supported protocols	IP: ARP, TCP/IP (HTTP, XML, SNTP, SMTP), UDP/IP (SNMP)
SNMP compatibility	Ver:1.00 compatible, some parts of the ver 2.0 implemented
SENSOR	
Type	Water leak sensing cable
Connector	Terminal block
Sensor states	0 = OK, 1 = Water leak detected, 2 = Sensor disconnected
Sensing cable length	Max 85 meters
Sensors extension	Connecting cable max 100 m, one pair of AWG 24
POWER input	
Power supply	POWER 5V / 250 mA
Connector	Jack Ø3.5 x 1.35 [mm]
LED Status indicators	
POWER / status	Green - power OK (status = DHCP/Local alarm)
LINK & Activity	Yellow - Ethernet connectivity
Physical parameters	
Operating temperature	-10 to 60 °C
Dimensions / Weight	65 x 88 x 30 [mm] / 250 g
EMC	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000