HWg-WLD: Water Leak Detector

Ethernet Water Leak Detection with sensing cable. Web server, E-mail, SNMP, remote relay

HWg-WLD detects water leaks or water floods along the entire length of the sensing cable. The sensing cable detects even the smallest volume of water, ethylene glycol or other conductive liquid.

The sensing cable detects as little as a few drops of the liquid, and can be used to detect water condensation. After flooding, the sensing cable can be dried and reused.

HWg-WLD features a built-in web server and SNMP support. In case of an water detection, HWg-WLD sends a SNMP trap or E-mail.
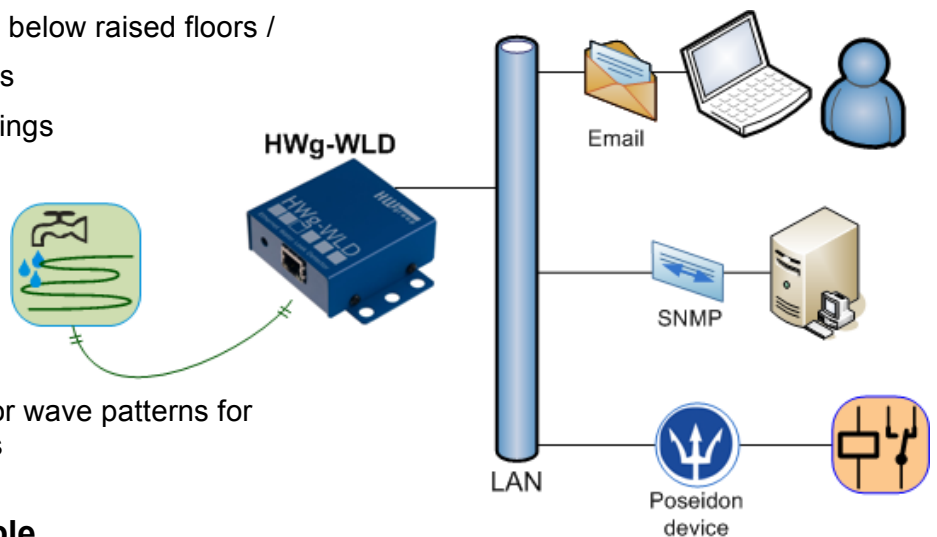
Alarm can be also signaled by activating a remote relay over IP. When a water leak is detected, HWg-WLD activates defined relay output of a remote Poseidon or Damocles device (Box-2-Box mode).

- Highly sensitive liquid leak or flood detector, **sensing cable length 2 – 85m**
- Alarm alerts are sent by E-mail, SNMP trap, or by activating a remote relay output
- Detects even the smallest volumes of liquids, sensing cable can be dried and reused

Application examples

- **IT / Datacenters**: Detection cable below raised floors /
- **Office buildings**: Run in drip trays
- **Buildings**: Above suspended ceilings
- **Pipeline remote monitoring:** Attached to pipe-work within lagging

- Laid around the base of a plant, apparatus or tank.
- Water leak detector laid in loops or wave patterns for general monitoring of larger areas

Water leak sensor: Detection Cable

- 2m sensing cable is included in the WLD package.
- The sensing cable consists of a sensing segment, a leader segment and a terminator.
- The WLD sensing cable can be extended using 2m / 10m / 50m sensing segments.
- 5m extension cable is available. It can be used to extend the cable by max. 100m.

Basic features

- Simple installation, DHCP support

- No special SW necessary, built-in web server

- The sensing cable can be extended by non-sensing leader cable (2 wires).

- The sensing cable can be fixed in place using clips or adhesive tape

- HWg-WLD signals the following states:
    - 0 = OK
    - 1 = Sensing cable flooded
    - 2 = Sensing cable disconnected

- Water leak or flood alerts can be send by E-mail. The E-mail alerts can be forwarded to a mobile phone as text messages using the Email-2-SMS service.

- Water leak can be signaled by remote relay output on any Poseidon or Damocles device.

- HWg-WLD can be easily mounted on a wall or into a 19" cabinet

- The "**HWg-WLD PoE**" device version can be powered over the Ethernet cable or using a power adapter

HWg-WLD

•	**Inputs** (zone)	**1**
•	Sensing cable length (max)	**85m**
•	Leader cable length (max)	100m
•	**Outputs** (relay contacts)	**-**
	▪ Remote relay support	Yes
•	SNMP, SNMP trap	Yes
•	Alarm alert by e-mail	Yes

Parameters

- **Ethernet**: 10/100 Mbps

- **IP protocols**: ARP, TCP/IP (HTTP, NTP, SMTP), UDP/IP (SNMP)
    - **DHCP** assignment of IP address
    - **SNMP** port 161 (Ver 1.0 / 2.0)

- M2M protocols: XML(http), SNMP

- Power: 5VDC / 1W (PoE IEEE 802.3af)

- Ambient temperature: –10°C to +65°C
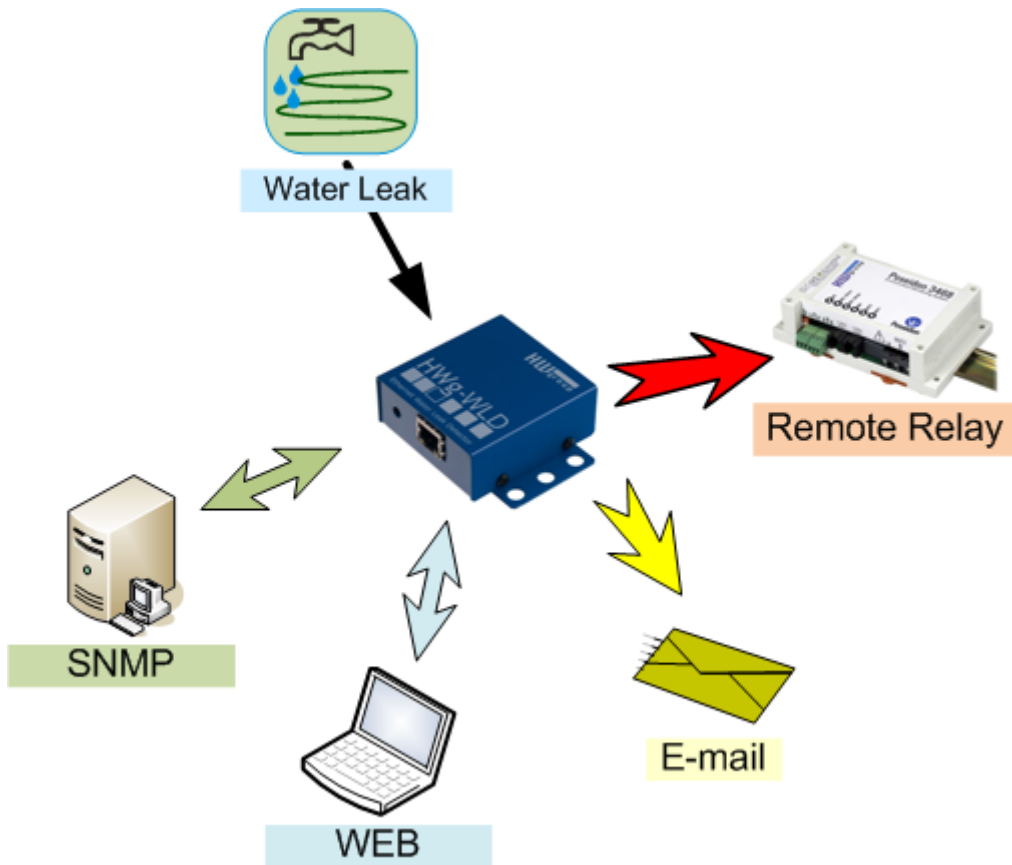
Accessories

PowerEgg	Poseidon 3468	WLD sensing cable A - 2+2m	Damocles 1208
600 237	600 349	600 417	600 411

600 419	**HWg-WLD Water Leak Detector**	HWg-WLD Ethernet Water Leak Detector. Complete package with EU wall plug power adapter, CD, 2m leader cable + 0.4m sensing cable.
600 449	**HWg-WLD PoE**	HWg-WLD PoE – Water Leak Detector powered over Ethernet PoE (IEEE 802.3af). Complete package contains EU Wall plug power adapter, CD, 2m leader cable + 0.4m sensing cable.
600 417	**WLD sensing cable A - 2+2m**	2+2m Water Leak Detection cable (Type A - white) - total length 4m. CABLE: 2m connection cable + 2m detection cable + Terminator
600 467	**WLD sensing cable A - 2+10m**	2+10m Water Leak Detection cable (Type A - white) - total length 12m. CABLE: 2m connection cable + 2m detection cable + Terminator
600 349	**Poseidon 3468**	Poseidon 3468 industrial version features two 110/230VAC relays that can be used to signal water leaks.
600 411	**Damocles 1208**	Damocles 1208 features 8 outputs (open collector) that can be used to signal water leaks.
600 493	**HWg-WLD Relay**	Water Leak Detector with 2m sensing cable + 2m leader cable. Relay output or 1-Wire UNI output (Poseidon). Includes a 12V power adapter.

Typical scheme

WLD cable placement in a datacenter

WLD sensing cable extension.

Saves costs and simplifies installation.