

**Hydrophone HA**

# Use and Installation



  
**SEWERIN**

### Personal safety

Non-compliance with these operating instructions may result in serious injuries.

Apart from these instructions, adhere also strictly to all generally valid safety and accident prevention rules.

Hermann Sewerin GmbH is not liable for damage caused by failure to comply with the instructions or which is resulting from incorrect usage of the product.

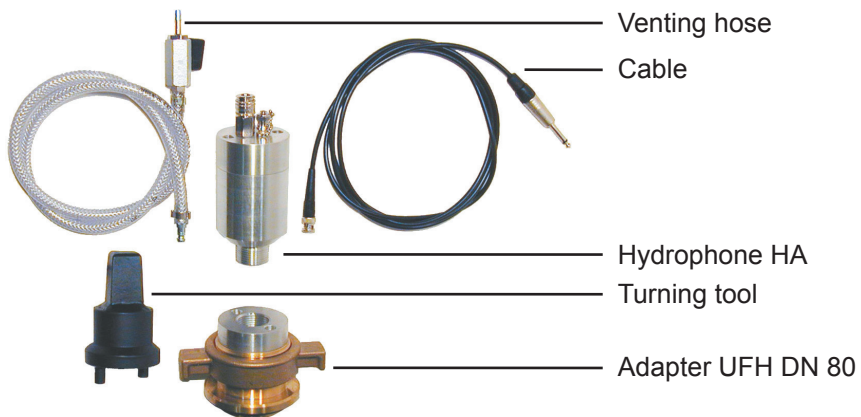
Only authorized persons may perform the actions described in these operating instructions.

Modifications and conversions may only be carried out with prior written consent of Hermann Sewerin GmbH.

Only accessories manufactured by Hermann Sewerin GmbH may be used in conjunction with the product.

Repair work of the product may only be performed by sufficiently qualified members of staff. Only spare parts may be used for repairs which are released and recommended by Hermann Sewerin GmbH.

### Hydrophone HA and accessories (illustration)



## 1 Use

**Hydrophone HA** is a device used for receiving leak noise at non-metallic water-filled piping systems up to pressure stage PN 16. The device may be mounted only on hydrants or on conus-shaped Whitworth 1" female threads (e.g. water meter connectors).

The device contains a Piezo sensor. This sensor records leak noise by contact with the water. The noise signals are transmitted via cable to a radio transmitter and are then evaluated by a correlator, together with the signals of a second **Hydrophone HA** device.

To permit a more accurate evaluation of the signals, a frequency filter (e.g. active filter ZF OI) can be used.

## 2 Installation

- Flush the line until the water flowing out is free from dirt.



### Notes:

Make sure that no dirt enters the piping system during mounting.

Make sure that there are no leaks at the junction points to avoid interfering noise at the Hydrophone. If necessary, seal the 1" thread.

- Applies only to underground hydrants: Install an adapter as follows:
  - Apply a thin film of lubricant (e.g. Vaseline) on the rubber seals of the adapter. Use only lubricants which are not harmful to drinking water.
  - Place the adapter on the hydrant opening.
  - Turn the adapter until the claw nut locks in at the limit stop below the claws of the hydrant.
  - Use the turning tool to turn the inner part of the adapter until the adapter sits firmly on the hydrant.
- Screw the Hydrophone manually into the adapter / 1" thread. The coupling for the venting hose must point upwards.
- Connect the venting hose to the coupling.

- Push the BNC socket of the cable on the BNC connector of the Hydrophone and connect the jack plug to the radio transmitter / frequency filter.
- Check the mounted parts for safe fitting before opening the hydrant and/or the shut-off device.
- Open the hydrant / shut-off device completely.
- Vent the hydrophone carefully with the help of the venting hose until you can no longer detect any air bubbles. Open the cock of the venting hose completely for this.



### **CAUTION!**

If the Hydrophone (or the adapter) is not properly fitted, you need to disassemble and reassemble all parts. – Do not twist any parts which are exposed to water pressure. This may lead to injuries by parts coming loose and may damage the seals.

## **3 Disassembly**



### **Note:**

Unscrew the Hydrophone HA from the adapter / 1" thread after each use. This is the only way to prevent the parts from seizing due to corrosion.

- Close the hydrant / shut-off device.

Proceed with disassembling by reversing the steps described under "Installation".

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