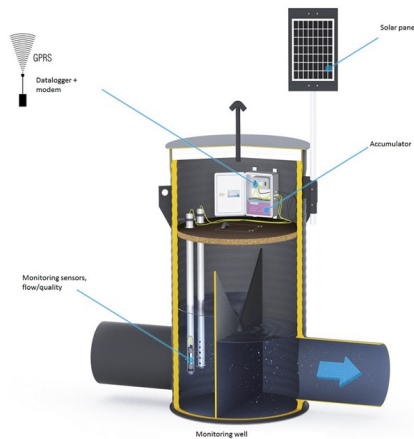




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## EHP-MS THERMALLY INSULATED MONITORING STATION



### 1. FLOW AND QUALITY MONITORING IN FIELD CONDITIONS

Water flow and quality can be monitored in ditches and channels throughout the year by using the EHP-Monitoring station. It is developed to run year-round in northern areas, light structure enables easy and quick relocating. The EHP-MS is utilised e.g. in mining industry, landfills, peat production, energy sector, forestry and agriculture.

### 2. OPERATING PRINCIPLE

The EHP-MS's thermal insulation properties are based on the outer lid, walls and internal working floor. Water flow is monitored by integrated Thompson's V-notch. The station is easy to move and quickly installed into a ditch or channel, since the material used to construct the EHP-MS is light and robust PE-HD plastic. This is considerably lighter when compared to steel or concrete wells and removes the need for heavy transportation vehicles when removing the station. The station includes pre-installed water level scale, ventilation pipe, locking latches, hatch for sampling and steps for maintenance.

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### 3. WATER FLOW MONITORING

EHP-monitoring station can be installed to any open ditch or channel. Water flow is monitored online by water level sensor and EHP-DL12 datalogger mounted in the station. The measurable flow capacity depends on well size - inlet and outlet sizes are as well tailored, depending on the needs.

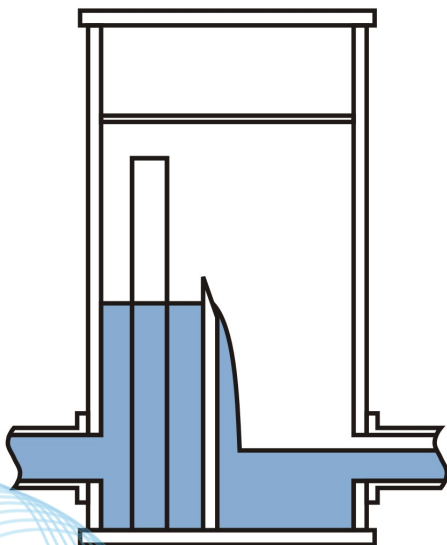
### 4. WATER QUALITY MONITORING

Water quality sensors can be installed inside the monitoring station and online monitoring data is transmitted wirelessly. The sensors and other devices are easy and quick to install. Real-time online monitoring can be carried out throughout the year.

### 5. TECHNICAL SPECIFICATIONS

- **DIMENSIONS :** - height 1000 ... 4000 mm  
- diameter 400 ... 2200 mm
- **WEIGHT:** 50... 400 kg
- **WATER FLOW CAPACITY:** 0 ... 1400 l/s
- **OPERATION TEMPERATURE** - 40 ... + 80°C
- **MEASUREMENTS** - flow/water level  
- water quality; suspended solids, turbidity, pH, conductivity, redox, dissolved oxygen, nitrate/nitrite, ammonium, temperature, COD, TOC, blue-green algae, chlorophyll-A,...

Finnish patent and registration office has granted a utility model no 8514 for EHP-MS thermally insulated monitoring station.



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