

EHP-Monitoring Station for water flow and quality monitoring in field conditions



1. Flow and quality monitoring in field conditions

Water flow and quality in field conditions can be monitored in ditches and channels all year round by using the EHP-Monitoring Station. Regardless of the field condition all monitoring equipment and sensors require a base for protection and installation. The EHP-MS has been specially developed for this task to meet the requirements of any field conditions in a number of sectors; mining, landfills, energy, forestry, agriculture etc.

2. Operating principle

The EHP-MS is thermally insulated in three key areas: the outer lid, walls and a specially designed internal lid. Within the station, the EHP-MS contains a Thompson's V-notch to monitor water flow and is integrated to prevent leakage. The internal lid is ideal for the installation of water flow and quality sensors.

The station is easy to move and quick to install in a ditch or channel, since the material used to construct the EHP-MS is PE-HD plastic. This is considerably lighter when compared to steel or concrete which removes the need for heavy transportation vehicles when moving the EHP-MS from one place to another. Finally, the outer lid contains a ventilation pipe and a suitable location for a lock.

3. Water flow monitoring

Installing the monitoring station to any open ditch or channel provides the possibility to monitor the water flow by installing water level sensors and a data collection system inside the station (for example EHP-DL6 for data collection and transmitting). The installation of monitoring instruments is very quick as the monitoring station is designed for this purpose. The flow capacity is dependant only on the size of the monitoring station.

4. Water quality monitoring

By installing water quality sensors inside the monitoring station it is possible to monitor and collect water quality on-line and transmit the data. Since the monitoring station is designed for water quality monitoring, the sensors and equipment are quick and easy to install.

Typical application are landfills, mines, agriculture and forest sector and all kind of surface water monitoring objects in field conditions. Typical price of the system varies from 4000 –8000 €

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

