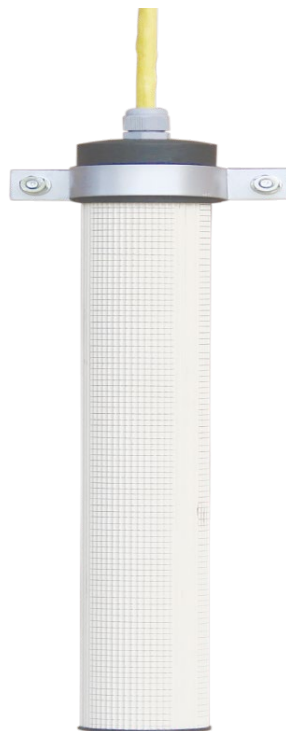




DATASHEET

SEEPAGE/WATER LEVEL MONITORING

MODEL ESM-11V



OVERVIEW

The model ESM-11V seepage monitoring system is designed for precision measurement and monitoring of water levels in weirs, tanks and reservoirs and seepage in dams.

FEATURES

- Highly sensitive and stable reading
- Accurate and simple to read
- Suitable for remote reading of settlement
- Atmospheric pressure change does not affect reading
- Easy to install & maintain

APPLICATION

- Monitoring of water level in weirs, tanks, reservoirs
- Monitoring of seepage in dams structures in landslide areas.



OPERATION

Model ESM-11V consists of a submersible cylinder suspended from a vibrating wire sensor. The component parts are enclosed in a perforated PVC pipe. The system can be supplied with a stainless steel V-notch weir, if ordered separately, to monitor rate of flow of water in connection with seepage measurement.

The submersible cylinder is partially submerged in water whose level is to be monitored. Any change in water level changes the buoyancy on the cylinder, which is measured by the vibrating wire sensor.

The vibrating wire sensor can be read with model EDI-51V vibrating wire portable readout unit. It can also be read remotely with model EDAS-10 data acquisition system. Since the sensor is vibrating wire type and has frequency output, data can be transmitted over long lengths of cable without any problem.

The vibrating sensor has a vented signal cable, the vent tube of which is terminated in a moisture trap of a desiccant chamber. The vent being open to atmosphere helps to compensate the barometric fluctuations automatically.

SPECIFICATIONS

Range	300, 500, 1000, specify
Accuracy**	± 0.1 % fs
Non-Linearity	± 0.5 % fs
Temperature limit	-20 to 70°C

**All specifications are subject to change without prior notice*

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