Datasheet
v1.2/10

VWM 2000

vw weir monitor

Applications

Precise water level measurement of:

- Weirs
- Streams
- Reservoirs
- Tanks

Features

- Accurate (0.1mm changes can be measured)
- High resolution
- Long-term stability
- Insensitive to long cable lengths.
- High accuracy
- Integral thermistor
- Integral lightening protection
- Suitable for remote reading and data logging

The **VWM 2000** vibrating wire precision water level monitor utilises a vented vibrating wire force transducer in combination with a cylindrical weight suspended from it to monitor water levels.

The vibrating wire transducer is vented to atmosphere so that any atmospheric changes are automatically compensated.

The transducer and weight are contained within a PVC slotted pipe which can be located within the weir or tank as necessary and the vent tube is terminated within a moisture trap. Periodic change of the desiccant is required.

The cylindrical weight is partially suspended in the water level being monitored and as the water level changes the force on the transducer by the cylinder alters which in turn alters the tension of the vibrating wire.

As with all vibrating wire sensors, the output is frequency and therefore not affected by changes of cable resistance and therefore extremely long cable lengths are possible.

CE **Electromagnetic compatibility according to EN 61326-1 and EN 61326-A1 directives for EMC emission and immunity**

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vwm 2000

Specifications

Operating temperature range	-20°C to +80°C
Standard ranges	150, 300,500, 1500mm
Resolution	0.025% FS
Accuracy	±0.1% FS
Stability	±0.05% FS per annum
Cable	4 x 22 AWG (shielded)
DimensionS	110 diam x 650mm long

VWM 2000 may be read by the VW2106 or any vibrating wire readout device and may be readily data logged using Campbell Scientific or any other data loggers with vibrating wire interface modules.

Vibrating wire temperature sensors output a frequency signal, and are therefore insensitive to resistance changes in connecting cables caused by contact resistance or leakage to ground.

Cable may be readily and simply extended on site without special precautions. Gauges may be read up to 3000 metres away from their installed location without change in calibration.

Ordering Information

Range
Cable length
Special mounting brackets

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