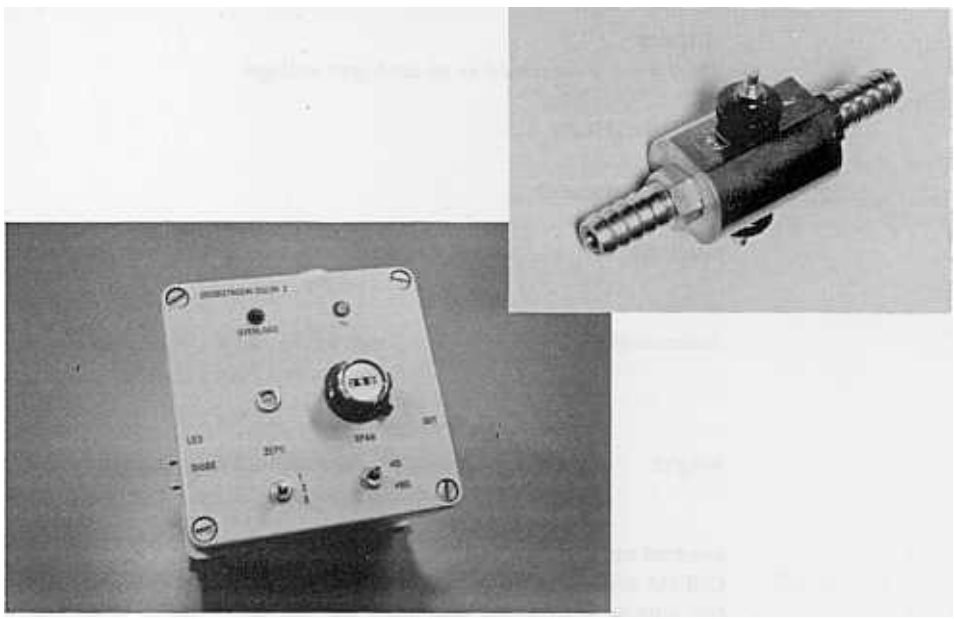
instruments

OSLIM probe and control-unit for optical silt measuring instrument



application
The OSLIM system is an instrument to measure silt concentrations of particles in suspension.

principle
The method is based on the attenuation of the intensity of a lightbeam, due to the light absorption and reflection of silt particles suspended in a liquid.

fields of application
- analysis of suspended sediment samples
- monitoring of suspended matter in liquids

features
- two probe types, 1.6 and 5.0 mm (ID) tubing
- easy to clean probe parts
- exchangeable transmitter and receiver
- electronics insulated from medium
- immersible version available (see FOSLIM probe)

the OSLIM system consists of:
- the probe
- the OSLIM control-unit, providing the system power supplies controls and switches for setting
  - zero
  - span
  - out-of-range indication
  - analogue output

WL | delft hydraulics

outputs
The output is presented as an analogue voltage

specifications

probe (standard)

materials	- brass - glass tubing
dimensions	- 1.6 mm probe : 25 x 80 mm (dxl) - 5.0 mm probe : 30 x 100 mm (dxl) - cable : 2.5 m.
weight	- 1.6 mm probe 0.15 kg - 5.0 mm probe 0.25 kg

control-unit
OSLIM control-unit is installed in an IP-60 protected aluminium box with separate mains adapter.

- 1.6 mm type and pump-flow > 1 cm^3/s: 5,10, 20 and 50 g/l (China clay)
- 5.0 mm type and pump-flow > 3 cm^3/s: 1,2, 5 and 10 g/l (China clay)

zero-stability	- < 0.4%/24 hours F.S.
response	- 20 ms
controls	- range selector - span and zero setting - overload indicator
	analogue voltage, 0-10 VDC,
connectors	- output (BNC) - probe socket - mains socket (24 VAC)
mains adapter	- 220 VAC/ 24 VAC
dimensions	120 x 120 x 100 mm
	- control-unit 1.4 kg - mains adapter 0.5 kg