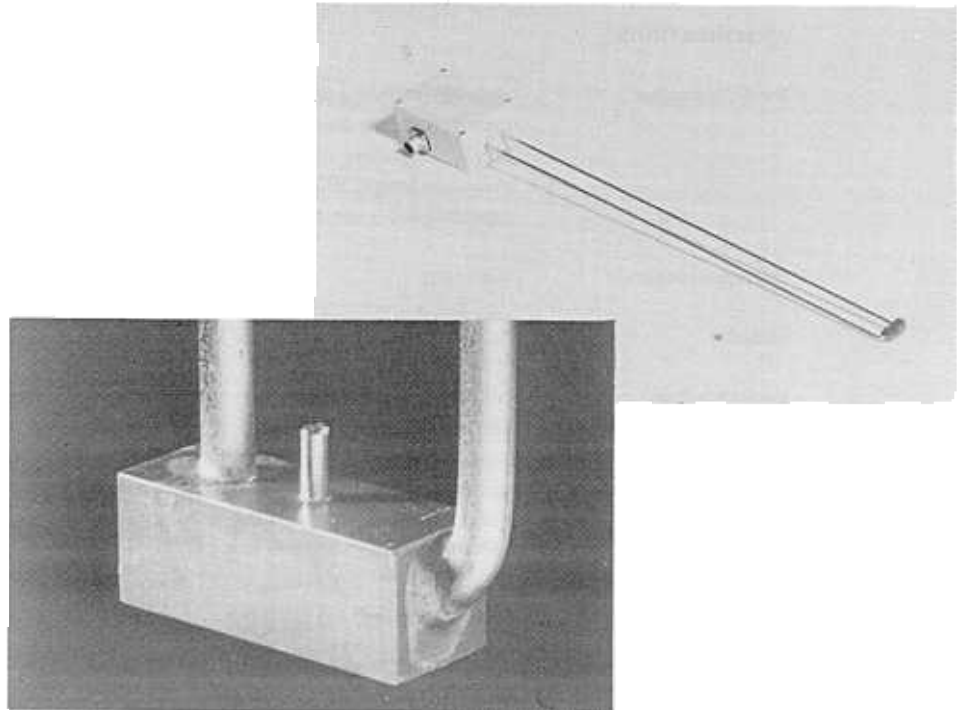


## GHM - probe for dynamic liquid-level measurements



### applications

The probe was developed for measurements of dynamically varying liquid levels, wave heights in particular. Combined with the GHM control-unit, the probe has proven to be a reliable tool for many research centres.

Specific applications include investigations in the fields of:

- harbours and coasts
- breakwaters and dykes
- coastal protection
- off-shore structures
- navigation.

### features

- small dimensions
- fast dynamic response (15 Hz)
- wide range (0.05 - 0.5 m)
- optional range up to 1 m
- automatic compensation for medium conductivity variations
- easy installation and calibration
- low maintenance requirements.

### conductivity compensation

A small reference electrode, for which no special treatment is required, and its electronic compensation circuit warrant a constant sensitivity within 1% for conductivity values between 0.1 and 2.0 mS/cm

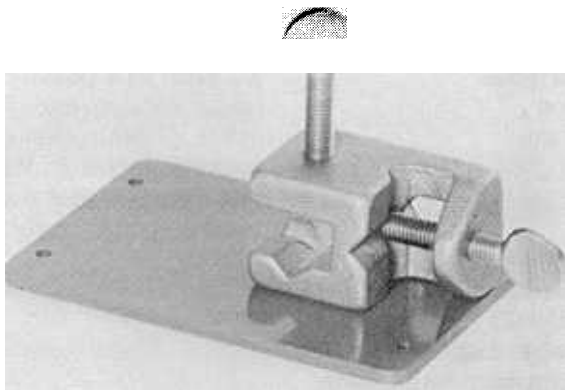
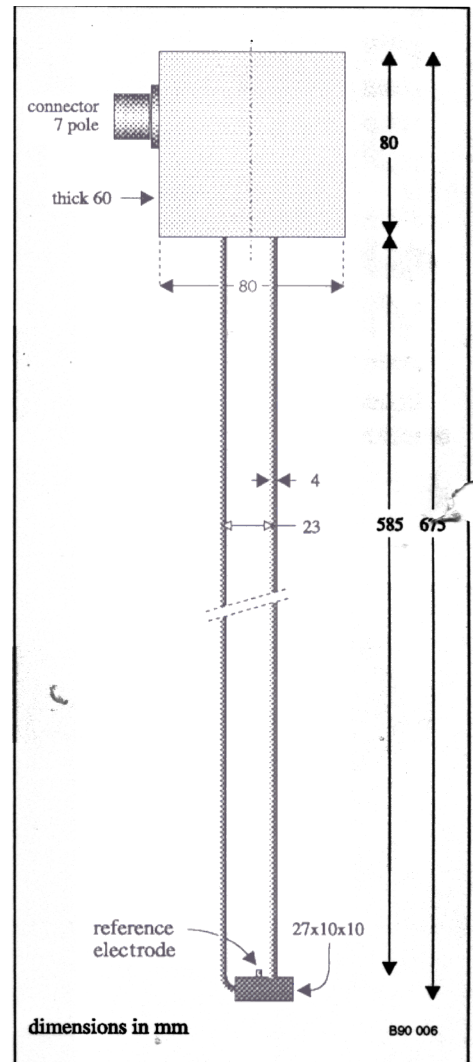
### wave attack on dykes

For our consulting activities related to coastal protection, the GHM probe has been successfully used as a sensor for dynamic wave attack on dykes. Combination of high dynamic response (up to 15 Hz) and easy installation makes it a low-cost tool for this special application.



**specifications**

level-electrodes	rods (2), stainless steel, type 316, 4 mm diameter electrode spacing 23 mm electrode length 590 mm (special probe: electrode length 1100 mm)
reference electrode	platinum
linearity	0.5% of selected range (b.s.l.)
liquid medium	all liquids compatible with abovementioned materials
conductivity influence	minimum required conductivity 0.08 mS/cm for conductivity range of 0.1 to 2.0 mS/cm sensor sensivity variation is < 1%
output	0.005 VDC/mm
power	+/- 15 VDC, 100 mA (supplied by GHM control-unit)
dimensions	incl. electronics: 675 x 80 x 60 mm
weight	0.5 kg; in box (750 x 130 x 120 mm) 3 kg
cable	standard 7-core shielded, l=10 m. (optional up to 100 m.)
cable-connectors	probe: Socapex SL EM 17P control-unit: Socapex SL EF 222P



**probe mounting**

- universal cross-clamp (standard).