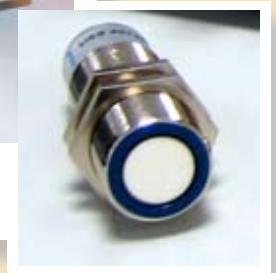


UltraLab ULS HF54/58

Sophisticated Level and Wave Measurements for Labs



The UltraLab ULS HF 58 with sensor
USS 13HF



The **UltraLab ULS HF 5x** series is a high speed, calibration-free measurement system based on General Acoustics' innovative ultrasound technology. The systems are optimized for challenging remote sensing applications in hydraulic laboratories and towing tanks. The very high reliability in combination with outstanding performance enable highly efficient and cost effective measurements. Additionally, sophisticated signal processing for false and lost echo cancelation leads to outstanding performance at high speed measurements.

The **UltraLab ULS HF 5x** enables resource-efficient and reliable measurements even at steep and fast waves with a relative velocity up to 6 m/s. The controller has 4/8 (HF54/58) independent, but fully-synchronized channels for a maximum flexibility at the selection of measurement points. 2 sensors per channel provide reliable measurements at even higher speeds and steeper waves. With a sample rate of 50 Hz, the systems are a perfect match for stationary measurement of high dynamic processes in an impressive resolution of 0.18 mm (for measurement ranges up to 350 mm).

Because of the integrated high precision sound velocity measurement the high accuracy can be guaranteed, even at changing ambient conditions.

The **UltraLab ULS HF 5x** is equipped with a RS232 interface. Optional, a LAN-interface realise the reception of the output data stream at any PC in a local network. Additionally, a trigger input is implemented for time synchronisation with external measurement- and data acquisition systems.

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Specifications:

- Measurement range: 25, 35, 120 cm
- Superior resolution: 0.18 / 0.36 mm
- Measuring rate: 50 Hz (40 Hz optional)
- Power supply: 110/230 V



Interfaces:

- RS232 with 115 kBaud
- LAN (Virtual COM-Port - optional)
- TTL Trigger input (opto-isolated)
- Output: direct readable ASCII
- analogue 0-10V output (optional)



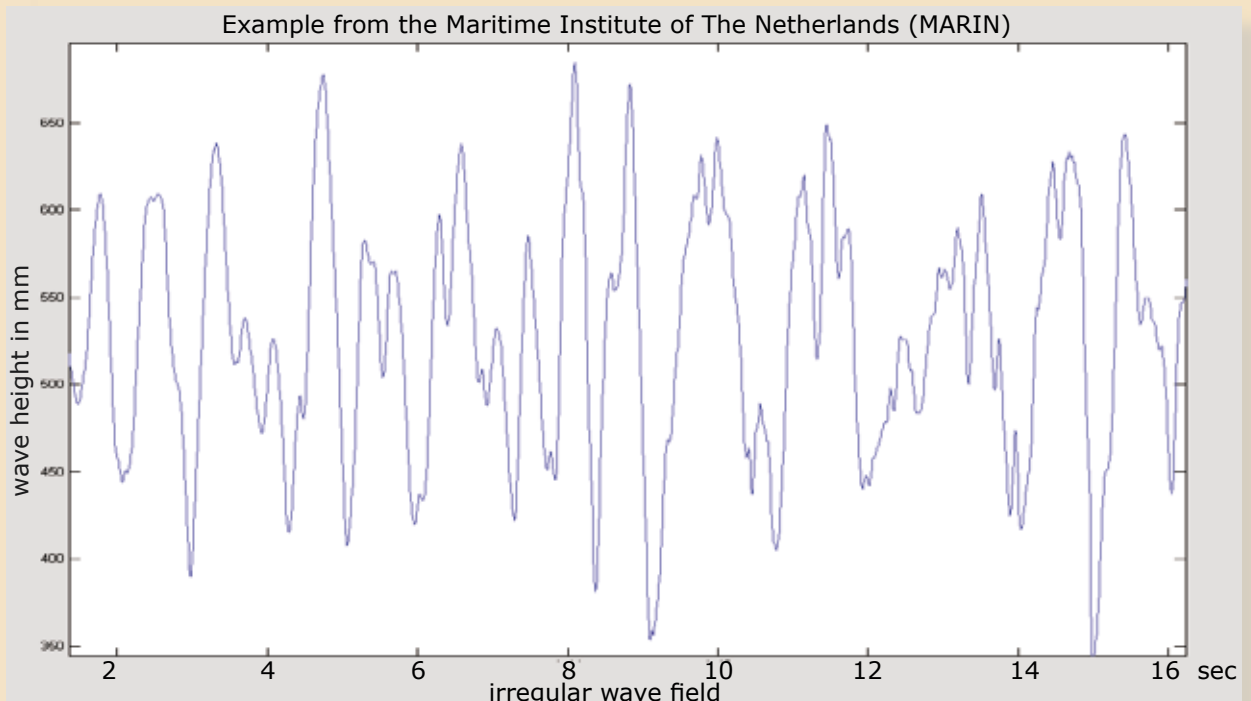
Application:

Measurements in wave channels, towing tanks, flood- and surface water models for:

- fast analysis of waves, wave fields and water levels
- fast recording of topographic contours in models

The **UltraLab ULS HF 5X** system consists of:

- up to 4/8 UltraLab USS XX HF sensors
- 1 Controller unit with four/eight independent channels
- 1 Sensor REF-300 for precise sound velocity measurement



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