



Vernier Hook & Point Gauges - H1

H1-1 / H1-3 - Hook & Point Gauges

The measurement of steady state water surface position is frequently needed during hydraulic investigations.

This is done by using a small point or hook manually adjusted to touch the water surface, and a reading is taken of the vertical movement using a scale or vernier.

Description - Vernier Hook & Point Gauges (H1-1, H1-2, H1-3)

A mounting frame is clamped to a suitable support structure and a gauging rod is free to slide up and down over the water surface. A stainless steel hook or point is attached to the bottom end of the rod and is used to locate the water surface.

Gauging is carried out by means of a primary scale attached to the mounting frame and a vernier scale attached to the rod. The scales are in edge contact.

The rod is held in a screwed collar for fine adjustment and can be released for large, rapid changes of position. Zero can be reset by a locking screw positioned on the vernier scale.

Demonstration Capabilities

- ▶ Location of air-water surface boundaries with high resolution
- ▶ Measurement of slowly changing water levels in flumes and hydraulic models
- ▶ Measurement of mechanical deformation

Overall dimensions

H1-1 (150mm):

Length	265mm
Width	75mm
Height	50mm

H1-2 (300mm):

Length	415mm
Width	75mm
Height	50mm

H1-3 (450mm):

Length	565mm
Width	75mm
Height	50mm

Packed and crated shipping specifications

Product	Volume	Gross Weight
H1-1 (150mm):	0.01 m ³	1.2kg
H1-2 (300mm):	0.01 m ³	1.5kg
H1-3 (450mm):	0.01 m ³	1.7kg

Ordering Specification

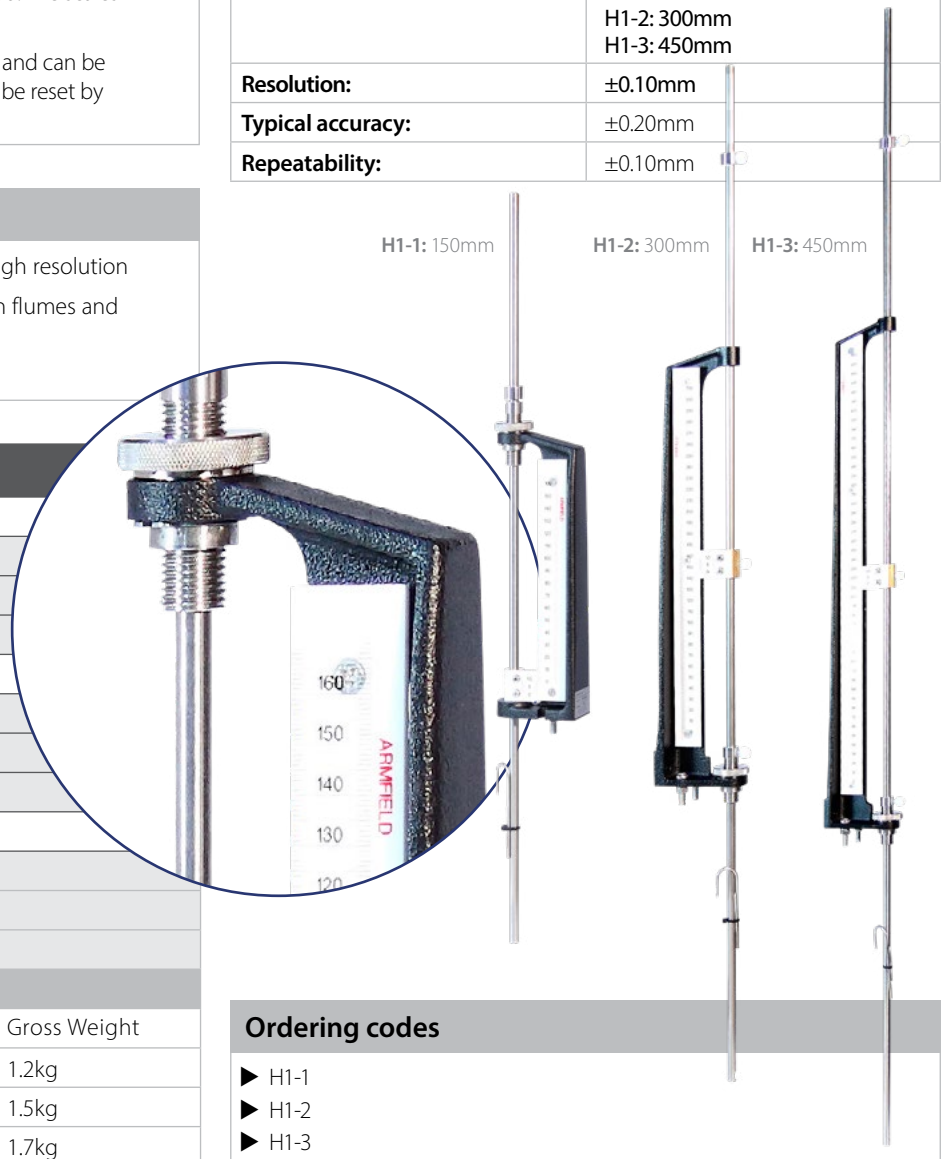
- ▶ A rugged low cost gauge for measurement of water surface position to $\pm 0.20\text{mm}$
- ▶ Mounting frame in enamelled cast aluminium
- ▶ Gauging rod and adjusting mechanism in bright plated brass
- ▶ Supplied complete with stainless steel hook and point

HT1 Accessories

- ▶ H1-11: Tripod stand

Technical specifications

Ranges:	H1-1: 150mm H1-2: 300mm H1-3: 450mm
Resolution:	$\pm 0.10\text{mm}$
Typical accuracy:	$\pm 0.20\text{mm}$
Repeatability:	$\pm 0.10\text{mm}$



Ordering codes

- ▶ H1-1
- ▶ H1-2
- ▶ H1-3