



# AWP-300-3 Wave Height Gauge

With CAN Bus digital interface

## Product Description

The AWP-300 Wave Height Gauge from Akamina Technologies combines the accuracy and reliability of the AWP-24 gauge with a CAN Bus digital interface. This makes the AWP-300 ideally suited for wave height measurements and integration with active wave absorption systems.

The digital CAN Bus interface eliminates many issues common in analogue data acquisition systems, such as noise and grounding issues over long cables. The CAN Bus interface also simplifies cabling as up to 30 AWP-300s can be connected in a daisy-chain fashion to the same cable.

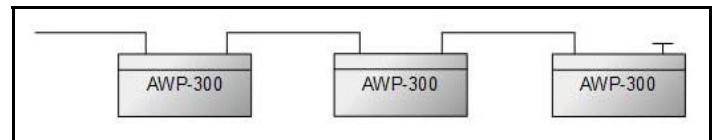
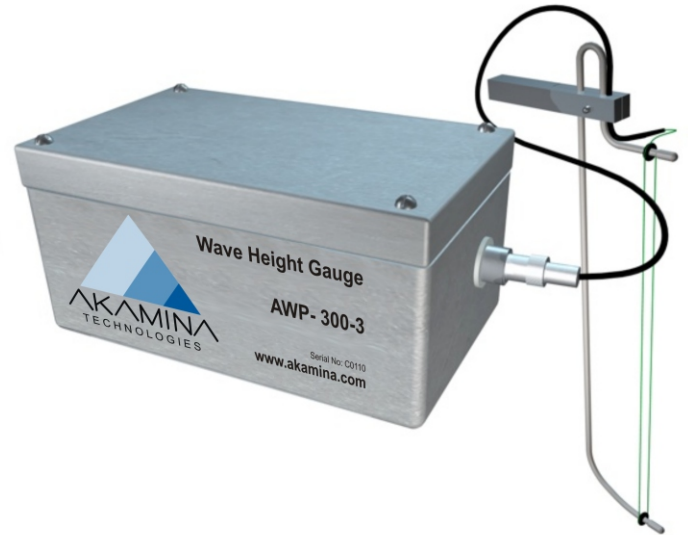
The AWP-300 combines temperature stable electronics and a high quality probe head. This results in extremely small calibration slope changes over temperature, making frequent calibrations redundant.

## Applications

- Monitoring waves in 3-D hydraulic models, wave flumes, towing tanks
- Measuring multidirectional waves and water surface geometry
- Providing wave height feedback for active wave absorption systems
- Wave measurements indoors or outdoors in fresh or salt water
- **Anywhere where high accuracy and ease of use are important**

## Product Features

- Fully automatic range adjustment; no dials or jumpers to set
- Save time and money performing less frequent calibrations, thanks to temperature stable electronics and probe head
- Guaranteed linearity and accuracy over wide range of water temperature and ambient temperature
- Measure water level changes from sub-millimeter to meters
- Use multiple gauges in close proximity in water without any interference with other gauges or instrumentation
- Digital CAN bus interface for direct connection to digital data acquisition systems
- Daisy-chain up to 30 units per cable to capture wave data from multiple gauges on a single CAN controller channel
- Easy setup and configuration through client software when used with an Akamina data acquisition system



Daisy Chain of AWP-300s

## Specifications

Output Signal:	Digital CAN Bus
<b>Linearity:</b>	<b>0.15% of Full Scale</b>
<b>Accuracy:</b>	<b>0.15% of Full Scale</b>
Air temperature coefficient:	0.03% of Full Scale/°C
Water temperature coefficient:	0.03% of Full Scale/°C
Operating temperature:	-10°C to 50°C
Measurement update rate:	200Hz
Power supply:	8Vdc to 24Vdc
Power consumption (idle):	6 mA
Power consumption (transmitting):	20 mA
Enclosure dimensions (L W H):	125 x 80 x 58 mm
Standard Probe lengths:	30, 60, 100, 150, 200 cm*

\* Custom probe lengths and single strand configurations are available upon request

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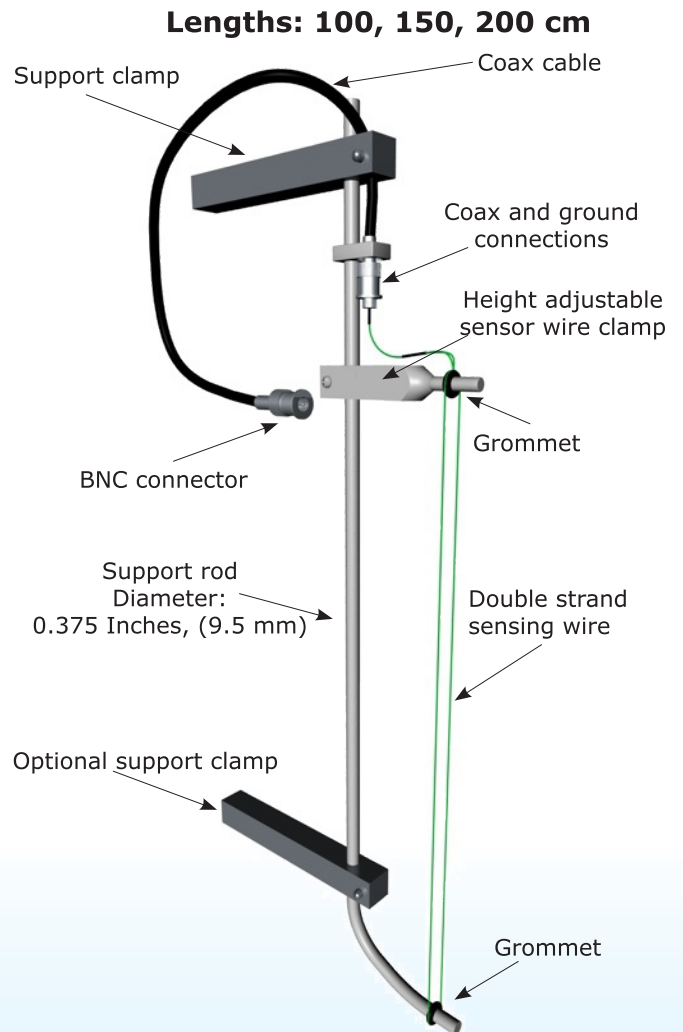
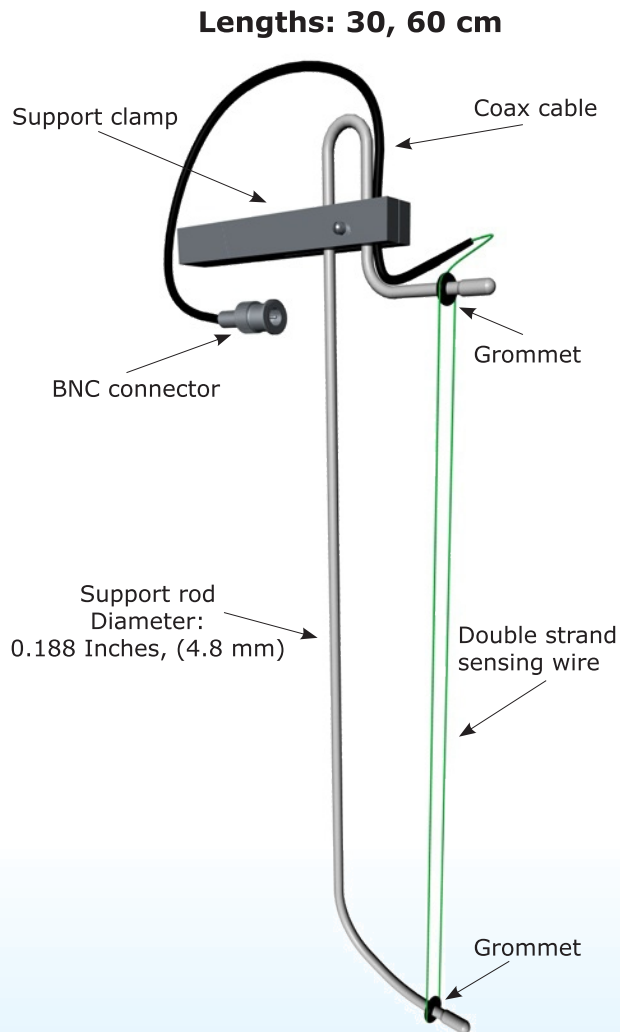
# Akamina Wave Probe Heads

## Industry Leading Accuracy and Linearity

The wave probe head is the part of the Akamina wave height gauge system that is partially submerged in water to measure wave heights or water levels. Akamina offers different types of wave probe heads to suit your application and wave height requirements. Akamina's Wave Probe Heads are designed to work with the AWP-24 and AWP-300 Wave Height Gauges.

All wave height gauges are built with high quality materials that guarantee accurate and continued operation without the need for frequent calibrations due to air and water temperature fluctuations.

- Custom designed, easy to use hard anodized aluminium clamps
- Stainless steel support rods
- Height adjustable sensor wire clamp on 100, 150, 200 cm probes
- Custom lengths and single strand configurations available



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