

6542C Hydrostatic Water Depth Probe



Probes provide accurate long term measurements of water depths of 5m to 50m in standard ranges, with an accuracy of 0.25% full scale.

The 6542 is fully sealed and temperature compensated. A hermetically sealed stainless steel case with a protection type IP 68 allows the pressure sensor to be immersed down to a depth of 100m. The inner vented connection cable makes pressure compensation of the measuring cell against the atmosphere possible and thus hydrostatic pressure measurement. The pressure sensor special for submersible measurement meets the electromagnetic compatibility (EMC) requirements to EN 61326. The mechanical fastening of the pressure sensor does not require any additional strain relief, as the construction of the cable is suitable to take a maximum tensile force of 1000 N. The cable's individual signal wires are epoxy sealed into the casing to protect against water ingress. This probe is ideal for monitoring drainage, bore depth and river height. It can also be used to measure water with dissolved solids and other liquids.

Consult your Unidata representative for details on the effects of a liquid on the 6542 instrument.

Specifications

Operating Range:	5, 10, 20, 30, 50 metres of Water
Resolution: (Unidata Prologger)	0.38mm @ 5m 0.76mm @ 10m 1.52mm @ 20m 2.28mm @ 30m 3.80mm @ 50m
Operating Temp:	0° C to 50° C
Over pressure:	5m – up to 5 times fs 10m – up to 5 times fs 20m – up to 4 times fs 30m – up to 4 times fs 50m – up to 3.2 times fs
Power:	5 to 30 VDC, 2mA from logger
Accuracy typically:	0.25% fs
Non-linearity & hysteresis:	±0.05% fs
Analog Output:	0.5 – 2.55 VDC
Diameter:	27mm
Length:	130mm long
Weight:	350g
Casing:	Marine grade stainless steel with Delrin nose cone.
Vented cable:	8.7mm OD, black polyurethane jacket, braided screen

6542C



Available from:
Unidata Pty Ltd
40 Ladner Street,
O'Connor WA 6163
Australia
Tel: +61 8 9331 8600
Fax: +61 8 6210 1854
www.unidata.com.au