

# PROBE SPEC SHEETS

V1.1



This document covers the technical specifications of Duro UAS probes and is subject to periodic updates. Notifications of significant updates will be emailed to registered users. [Download latest documents.](#)

<b>Resistance Temperature Detector (RTD)</b>	
Dimensions	0.188" Dia x 1" L (4.77mm x 25.4mm)
Reading Range	-55-200 °C (-67-392 °F)
Probe Temperature Range	-55-200 °C (-67-392 °F)
Response Time	1 reading per 420 ms
Pressure	0-100 PSIG (0-7.5 bar)
Accuracy	Class A per IEC 60751: $\pm 0.15$ °C at 0 °C; $\pm 0.26$ °C at -55 °C; $\pm 0.55$ °C at 200 °C
Wiring	4 Wire
Wetted Materials	
Body	316 stainless steel with 24 AWG standard white PFA jacket
Measuring Surface	316 stainless steel probe sheath
<b>pH</b>	
Dimensions	0.47" Dia x 5.90" L (12mm x 150mm)
Reading Range	0-14 pH
Probe Temperature Range	0-80 °C (32-176 °F)
Response Time	1 reading per second
Pressure	0-100 PSIG (0-7.5 bar)
Accuracy	$\pm 0.002$
Wiring	BNC
Wetted Materials	
Body	Ultem®
Measuring Surface	Glass

<b>Electrical Conductivity (EC)</b>	
Dimensions	0.47" Dia x 6.29" L (12mm x 160mm)
Reading Range	K 0.1 = 0.07-50,000 $\mu$ S/cm; K 1.0 = 5-200,000 $\mu$ S/cm; K10 = 10- 500,000+ $\mu$ S/cm
Probe Temperature Range	0-70 °C (32-158 °F)
Response Time	1 reading per 600 ms
Pressure	0-100 PSIG (0-7.5 bar)
Accuracy	$\pm$ 2%
Wiring	BNC
Wetted Materials	
Body	Epoxy and glass
Measuring Surface	Black coated platinum
<b>Dissolved Oxygen (DO)</b>	
Dimensions	0.64" Dia x 4.56" L (16.5mm x 116mm)
Reading Range	0-20 mg/L
Probe Temperature Range	0-50 °C (32-122 °F)
Response Time (After Equilibration)	1 reading per minute (HDPE at 2 mV)
Pressure	0-100 PSIG (0-7.5 bar)
Accuracy	$\pm$ 0.05 mg/L
Wiring	BNC
Wetted Materials	
Body	Epoxy
Measuring Surface	HDPE and Noryl
<b>Oxidation-Reduction Potential (ORP)</b>	
Dimensions	0.47" Dia x 5.90" L (12mm x 150mm)
Reading Range	-1019.9-1019.9 mV

Probe Temperature Range	0-80 °C (32-176 °F)
Response Time	1 reading per second
Pressure	0-100 PSIG (0-7.5 bar)
Accuracy	± 1 mV
Wiring	BNC
Wetted Materials	
Body	Ultem®
Measuring Surface	Platinum