

Turo Technology Pty Ltd

General Sensor Specifications for Quality Quality Analysers

Sensor	Range	Accuracy	Resolution	Type	T-611	T-612	T-613	T-617
Temperature	-2 to 50°C	±0.05°C	0.01°C	pt100 element in a stainless steel sleeve.	X	X	X	X
Conductivity	0 to 80 ms/cm 0 to 8000 us/cm	±0.05 ms/cm ±5 us/cm	0.02 ms/cm 3 us/cm	Four platinum electrode cell. Low range uses KCl algorithms, high range uses standard seawater ¹ algorithms	X	X	X	X
Salinity ¹	0 to 60 ppt	±0.05 ppt	0.02 ppt	Calculated from conductivity and temperature.	X	X	X	X
Dissolved Oxygen	0 to 200% saturation 0 to 20 mg/l	±0.5%	0.1%	Active Pb/Ag cell with a stabilised PTFE membrane, inbuilt stirrer to allow constant flow over membrane for stable reading.	X	X	X	
Turbidity	0 to 600 ntu	±0.5 up to 300 ±5% from 300	0.2 ntu 0.3 ntu	Nephelometric measurement from a detector aligned 90° to the pulsed infra-red source that is unaffected by daylight.	X	X	X	
pH	0 to 14	±0.03	0.01	Combination Ag/AgCl with junction (common with ORP).	X	X	X	OPT
ORP ² (REDOX)	-700 mV to +1100 mV	±3 mV	1 mV	Combination bare metal electrode with common reference junction with pH sensor.	X	X	X	
Depth	0 to 100 m or 0 to 150 m	±0.1% of full scale	0.1 m	Dual active arm silicon strain gauge. Optional atmospheric pressure compensation.	OPT	X	OPT	X
Storage capacity for programmed logging – number of scans ³					2135	16300		3171
Storage capacity for operator STORE button – number of scans ³					600			890
Data Tag – available for operator to insert when using STORE button								50

OPT - Optional

1 – Calculated from conductivity and temperature using the Practical Salinity Scale

2 – REDOX output is referenced to hydrogen ion electrode as per IEC746-5.

3 – Each scan includes a reading of each sensor plus date/time

October 2009