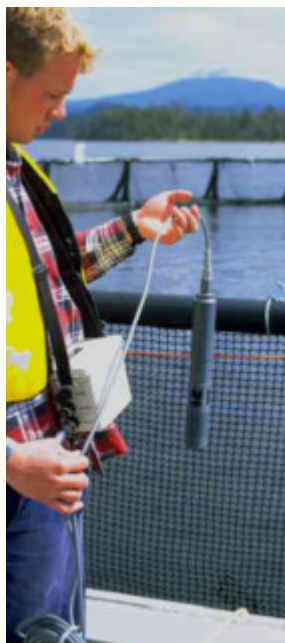


Turo T-611 Water Quality Analyser

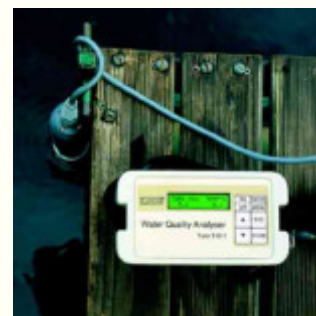
The T-611 is small, lightweight and rich in features. The completely water proof Reader/Logger unit is easy to use through its keypad and LCD alphanumeric display. It is compact enough to be carried by the shoulder strap, or left for unattended operation.

Use it to:

- Display all parameters on the LCD display.
- Do single point or two point calibration on all sensors.
- Programmable logger.
- Store readings in real time by pressing the STORE key.
- Set the Logger start/stop times and sample rate.
- Set up the real time clock.
- Download both real time STORE data and the automatically logged data.
- Calibration coefficients can be downloaded to disk. Coefficients show data and time of calibration.
- Use backlighting at night for the display.
- Connect Logger to computer or printer and receive data continuously using DATA OUT facility.



The unique design of the probe with its swivel action permits easy access to the sensors for servicing while enabling the sensor assembly dimensions to be very small.



The completely water-proof Data Logger stores information into its battery backed up memory either:

- Automatically at the programmed sample interval and start/stop times
- OR
- Whenever the STORE key is pressed.

The data is then transferred to a PC via a serial communications line (RS232). Use TuroGraph Windows software for downloading, printing and flexible graphical presentation.

Sample Rates:

Maximum 1 sample per 2 minutes
(1 per second in fast mode)

Minimum 1 sample per day

Cable:

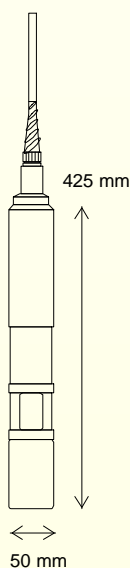
Polyurethane outer with Kevlar* inner strength member.

Power:

Standard 8 "C" size alkaline cells for 50 hours continuous operation. Note that for each programmed scan of sensors the system is on only powered on for 60 seconds. Optional external power supply.

Dimensions:

Probe assembly 50 mm diameter x 330 mm long
Reader 150 mm x 130 mm x 90 mm
Shipping weight 4.7 kg (with 3 metre cable)
9.5 kg (with 50 metre cable)



Sensor	Range	Accuracy	Resolution	Type
Temperature	-2 to 50°C	±0.05°C	0.01°C	pt100 element in a stainless steel sleeve.
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
Salinity ¹	0 to 60 ppt	±0.2 ppt	0.1 ppt	Calculated from conductivity and temperature.
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.
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.
pH	0 to 14	±0.03	0.01	Combination Ag/AgCl with junction (common with ORP).
ORP ² (REDOX)	-700 mV to +1100 mV	±3 mV	1 mV	Combination bare metal electrode with common reference junction with pH sensor.
Depth (optional)	0 to 100 m or 0 to 150 m	±0.5% of full scale	0.1 m	Dual active arm silicon strain gauge.

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

T-611 Standard System:

Probe (all sensors except depth)
Storage/calibration canister
Dissolved Oxygen membrane, o-ring and electrolyte kit
Computer cable
TuroGraph software for Windows PC
Cable length 3 metres

System Options:

Depth sensor
Other cable lengths (100 m max)

Accessories:

12 Volt auxiliary battery cable
Salinity & conductivity calibration standards
pH 4, 7 and 10 calibration buffers
Oxygen zero calibration sodium sulphite & cobalt chloride
ORP calibration quinhydrone

Other Options:

For the latest in new features and options contact Turo for details.