

YEO-KAL ELECTRONICS PTY LTD

Model 615 Multi-parameter Water Quality Analyzer

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- TEMPERATURE
- CONDUCTIVITY
- SALINITY
- TDS
- DISSOLVED OXYGEN
- TURBIDITY
- pH
- REDOX
- DEPTH
- GPS INPUT
- SPARE SENSOR INPUT
- DATA TAGS
- SMART CHARGE



Model 615

Water Quality Analyzer

Description:

The Model 611 Water Quality Analyzer is a robust multi-parameter field instrument. The unit allows the operator to measure eight parameters plus other calculated derivatives.

Probe:

The probe consists of seven sensors all housed in a 50mm probe. An optional 47mm probe is available for bore hole applications.

The sensors, Conductivity, Dissolved Oxygen and pH, are plug-in for easier maintenance and replacement.

Reader/Logger:

The unit is easy to operate through a keyboard and alphanumeric LCD display. The unit is watertight so it can be left unattended. It enables the user to:

- User Customisation of parameter settings and view on LCD
- Do single or two point calibration on all sensors
- Store readings in real time
- Tag data for easy identification
- Set the logger start/stop times and sample rate for remote logging
- Download both stored real time and logged remote data
- Download and upload calibration constants
- Download and upload instrument setup file
- Reader unit display can be altered to suit operator
- Adjust contrast on LCD display for clarity
- Backlighting of display for night use
- Rechargeable batteries with smart charge for long life
- Analogue input for extra sensor e.g. Fluorometer, Transmissometer

Specifications:

Reader Unit

- Display: Four lines 16 character alphanumeric LCD
- Memory: Remote Logging– 2425 samples. Real time (store key) 840 samples. All samples include date, time plus optional GPS if assigned. Memory is backed up by lithium battery
- Headers: 75 store key data - note: 18 characters long
25 logged data - note: 18 characters long
- Sample rate: 1 per 2 minutes to 1 per day in standard logging mode.
1 per second in fast logging mode
Display update, 2 seconds
- Communications: Baud rate 9600, 8 data bits, 0 parity 2 stop bits.
- Power: Battery pack containing NiMH 8 "C" size cells. Memory backup supplied by 1/2 AA lithium cell
- Case: Impact resistant polycarbonate 130 mm * 95 mm * 190 mm



Specifications Continued:

Sensors

Temperature:

Range: -2 to 50°C

Accuracy: +/- 0.05°C

Resolution: 0.01°C

Type: pt 100 Platinum element

Conductivity:

High range: 0 - 80 ms/cm

Accuracy: +/- 0.05 ms/cm

Resolution: 0.02 ms/cm

Low Range: 0 - 8000 us/cm

Accuracy: +/- 5 us/cm

Resolution: 3 us/cm

Type: Four electrode cell

Salinity:

Range: 0- 60 ppt

Accuracy: +/- 0.05 ppt

Resolution: 0.02 ppt

Type: Conversion used from conductivity

Dissolved Oxygen:

Range: 0 - 200 % saturation

0 - 20 mg/l

Accuracy: +/- 0.5 %

Resolution: 0.1 %

Type: Active silver and lead electrode plug-in sensor c/w stirrer

pH:

Range: 0 - 14

Accuracy: +/- 0.03

Resolution: 0.01

Type: Combination silver/silver chloride type plug-in sensor

ORP:

Range: -700 mv to +1100 mv

Accuracy: +/- 3 mv

Resolution: 1 mv

Depth: (optional)

Range: 0-100 m

Accuracy: +/- 0.5 % of full scale

Resolution: 0.1 m

Type: Dual active silicone strain gauge

Aux sensor inputs:

Range: 0-5 volts

GPS serial input

