

Multi-Channel Water Controller

EL300

The EL300 is a universal water controller based on a modular concept.

The EL300 can adapt to many different probes and configurations, mono or multi-channel. It allows the connection of one or several probes for each parameter among pH, ORP, dissolved oxygen, conductivity, chlorine, total suspended solid (TSS), total dissolved solid (TDS), temperature and turbidity in the limit of 16

channels. A very user-friendly interface can display all the values as well as graphs of the recorded values with periods from 10 minutes to one month. A USB port allows to transfer the recorded measurements that may be imported to Excel for treatments or graphs. A new web-based interface allows the control and the troubleshooting at distance using an internet browser on a computer, tablet or iPhone.



FEATURES

SPECIFICATIONS

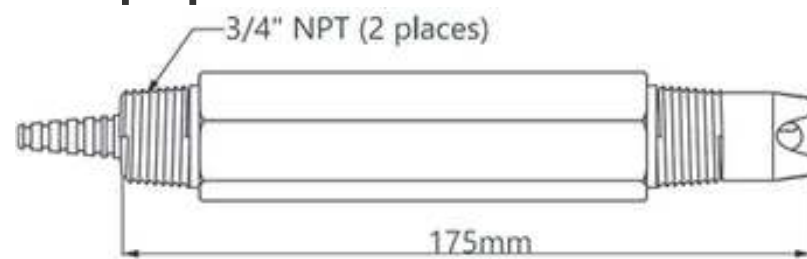
Quenching fluorescence based oxygen probe

- The dissolved oxygen probe is based on the fluorescence method for a lower maintenance and higher stability.
- At the opposite of galvanic and polarographic probes, the fluorescence based probes requires no electrolyte refill, no membrane change and no routine calibration. No flow is needed because there is no oxygen consumption.
- They also perform very well in harsh environments that normally destroy other conventional sensors.

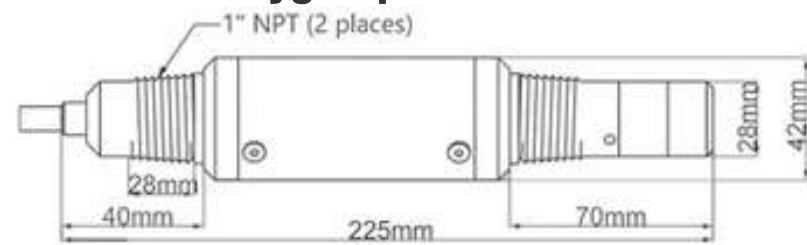
Robust industrial probes

All the probes are specially designed for harsh environments with high level of suspended solid.

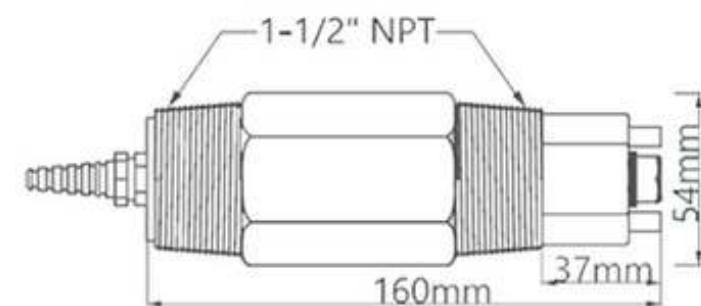
ORP/pH probe



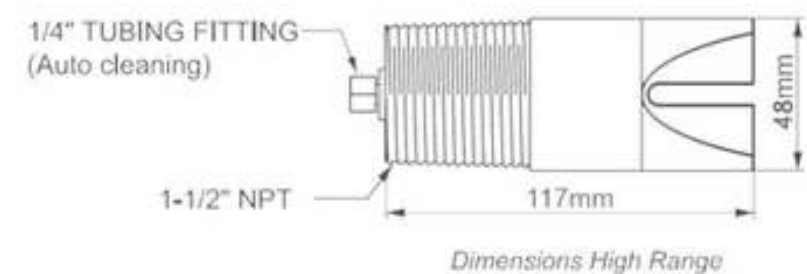
Dissolved oxygen probe



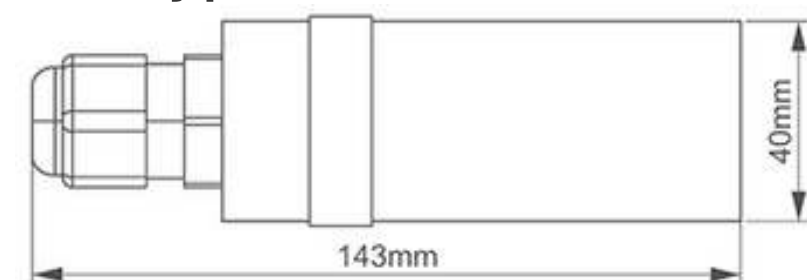
pH differential probe



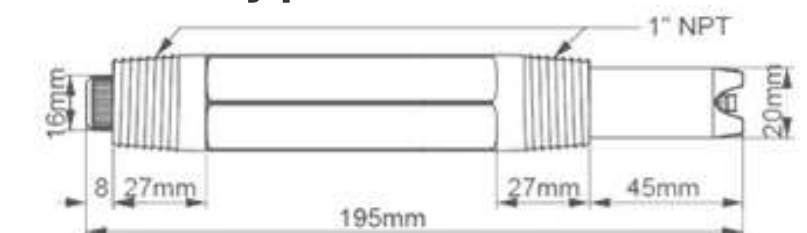
Total suspended solid probe



Turbidity probe



Conductivity probe



User-friendly interface

The colour touch screen and intuitive interface available in 8 different languages (Chinese, English, French, German, Italian, Portuguese, Spanish, Turkish) makes very easy to test or configure the analyser. Many test functions allows to test and troubleshoot each element of the analysers (light signal, pumps, solenoid valves, etc...) to setup quickly a maintenance diagnostic. The complete configuration can be saved on a USB key and reload if necessary.

Communication



Additional parameters are available like status code, error code, calibration values and pumps run time. Basic 4-20 mA output modules can be plugged on the main board for each measuring channel, in the limit of 12 modules. A USB port enables to download on any USB key the last 5000 recorded measurements as well as a diagnostic file containing the configuration and useful information for remote troubleshooting. The new web interface makes possible to drive remotely the analyser from any computer, tablet or i-phone with a web browser. For this, an optional Wi-Fi or Ethernet module is added inside the analyser to connect it to an existing network with an internet gateway. The recorded measurements file can be imported to Excel for graphs or other treatments. The software of the analyser can be upgraded by connecting a USB key.

Low maintenance and high reliability

The EL300 delivers a periodic 12V output to drive an air compressor to clean the probes equipped with air cleaning. The IP65 enclosure with an acid resistant protection film on the screen assume a efficient long term protection of the analyser.

Modular concept

The EL300 main electronics board includes 12 sockets that can receive input or output modules.

Input modules concern mainly pH and conductivity, while output modules can be 4-20 mA output or relays for high or low alarms. A RS485 port directly connects to a serie of RS485 probes for dissolved oxygen, turbidity (high range and low range) or pH with long cable distance. Several probes can be connected in parallel on the same RS485 port. A scan function in the software automatically recognises the network of probes connected.