((•)) ANB **Sensors**

AQ series of next generation,
calibration-free pH sensors

ANB Sensors, a leading UK scientific technology company have developed ground-breaking solid-state sensors for pH, conductivity & temperature. These innovative and revolutionary sensors, require NO calibration, operate to depths of 50 metres in any orientation in fresh or saltwater environments. Uniquely they can be stored wet or dry, require simple maintenance, are extremely rugged and have exceptionally low on-going costs ideally suited for long term, cost effective remote monitoring in harsh and demanding environments. Thus, removing the fundamental issues seen with the conventional, fragile glass electrodes which require frequent manual calibration.

These intelligent and easy to use, calibration-free sensors, are ideally suited for use in any sensing platform in freshwater, saltwater and aquaculture applications.

CALIBRATION-FREE:

unlike other pH sensors that need frequent re-calibration, ANB's patented technology means that the sensor is automatically calibrated in-situ without the need for manual intervention.

ADAPTABLE:

these calibration-free pH sensors can be deployed automonously or fit on any vehicle, sonde or monitoring platform.

ROBUST & RELIABLE:

these solid-state sensors can be stored wet or dry without any degradation of performance, have no special handling requirements and operate in any orientation, delivering consistent & reliable performance in demanding environments.

AFFORDABLE:

being cost effective and extremely low maintenance, these revolutionary sensors deliver up to 70% savings against operating costs of conventional sensors.

INTELLIGENT:

constantly monitoring themselves these sensors provide real time feedback on sensor performance, continuously self-calibrating and automatically notifying an operator should user intervention be required.

CHOICE:

2 models are available for operating at different depths and applications, choose from sensors designed to operate up to 5m & 50m depths, plus an integration kit that allows incorporation to existing sensing platforms and vehicles.

FLEXIBLE:

automated operation for schedule and sample frequency plus manual command and sleep mode, data can be accessed via RS232 or RS485 communications, with analogue connectivity scheduled for future implementation.

STORAGE:

on board 8GB memory allows storage of >15 million sensor readings of pH, conductivity, and temperature.

BIOFOULING:

these sensors are designed to stop biofouling as standard, by electrochemically inhibiting the formation of biofilm on the transducer.
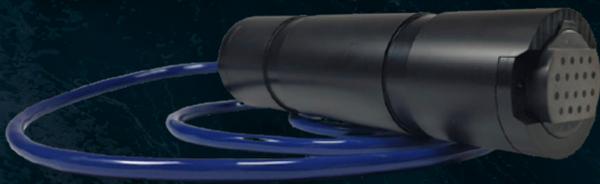
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APPLICATIONS:

Oceans, Coastal, Estuaries, Rivers, RAS facilities, Offshore, Aquaculture Farms, Profiling, Ponds, Well Boats & Lakes.

DEPLOYMENTS:

Profilers, Buoys, Vehicles, Moorings, River Stations, Sondes, Ferry boxes, Flow-through Systems & Flow Lines.

AQ5
5m rated

AQ50
50m rated

SPECIFICATIONS

pH range: 2 – 10

Resolution: 0.01 pH

Accuracy: +/- 0.05 pH

Response: Instantaneous

Salinity: 0 – 40 ppt

Temperature Resolution: 0.1C

Operational Temperature: -5 - 40°C

Communications: RS232 / RS485 / USB

Power: 5 – 42 VDC

Power Consumption: 90 mA

Sleep Mode Consumption: <1 mA

Operational Modes: timed / polled / continuous

On Board Storage: 8GB

Dimensions: AQ5 165mm / AQ50 191mm long x 41mm Ø

AQ5 Weight: 0.26Kg (air) 0.04Kg (water)

AQ50 Weight: 0.30Kg (air) 0.08Kg (water)

AQ5 Cable 1m supplied as standard

AQ50 Cable Optional purchased separately

AQ5 / AQ50 DTU Optional purchased separately

Replacement transducer: AQ5/50ST purchased separately

AQ5 Connection: via pigtail

AQ50 Connection: via 6 pin MCBH6M connector