

The OCEANSEVEN 316 Probe, equipped with the Redox Microprofiler option, allows the monitoring of the oxidation-reduction (redox) potential at 20 different levels contemporaneously, in both sedimental and interstitial waters.

The Probe is provided with an innovative heavy duty combined redox sensor equipped with 20 platinum electrodes and an Ag/AgCl gel reference electrode.

The platinum electrodes expose their cross section to the environment and can be easily cleaned simultaneously with a special polishing paper

Electrode specifications

Measuring Range	Accuracy	Resolution
-1000 to + 1000mV	1 mV	0.1mV

Redox measuring electrodes

no. 20 Pt electrodes, Ø 1.4 mm each

Measurement levels

Starting from the lower side of the Probe, there are the following electrodes:

- 1 unit at 6 mm,
- 1 unit at 16 mm,
- 1 unit at 31 mm,
- 5 units every 5 mm,
- 4 units every 10 mm,
- 5 units every 20 mm,
- 3 units every 25 mm.

The measurement of redox potentials starts from the lower side of the Probe up to 271 mm in the sediment.

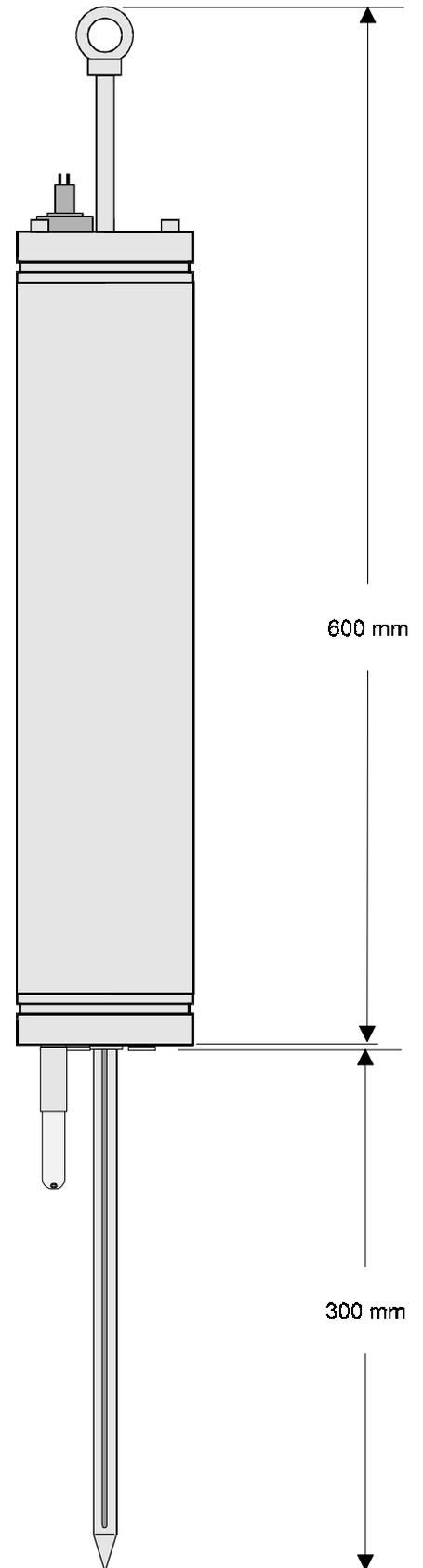
Electronic specifications

Communication port:	RS232C, up to 9600 bps.
Communication protocol:	proprietary byte-oriented message protocol.
Operator interface:	friendly menu driven user interface.
Data memory:	1 Mbyte non volatile CMOS memory (data retention > 10 years).
Firmware memory:	256 Kbyte, 5V flash memory, built-in automatic updating function allows easy, non intrusive, firmware upgrading.
A/D Converter:	16 bit 76 µV/bit successive approximation with built-in autocalibration capabilities.
Power supply:	15V, 60 mA 0.9 W power consumption. The internal battery package consists of 10 (ten) batteries: 1.5V, 1.8 A/h AA cell which allow continuous Probe

operation for about ~ 40 hours.

Physical characteristics for 1500 dbar operation

Dimensions:	housing diameter:	100 mm
	total length:	900 mm
Weight :	in air:	6 kg
	in water:	3 kg
Materials:	plastic (white PPS), titanium, glass, platinum	
Cable connectors:	4-pole connector for RS232C output. (Brantner RMG-4-FS)	



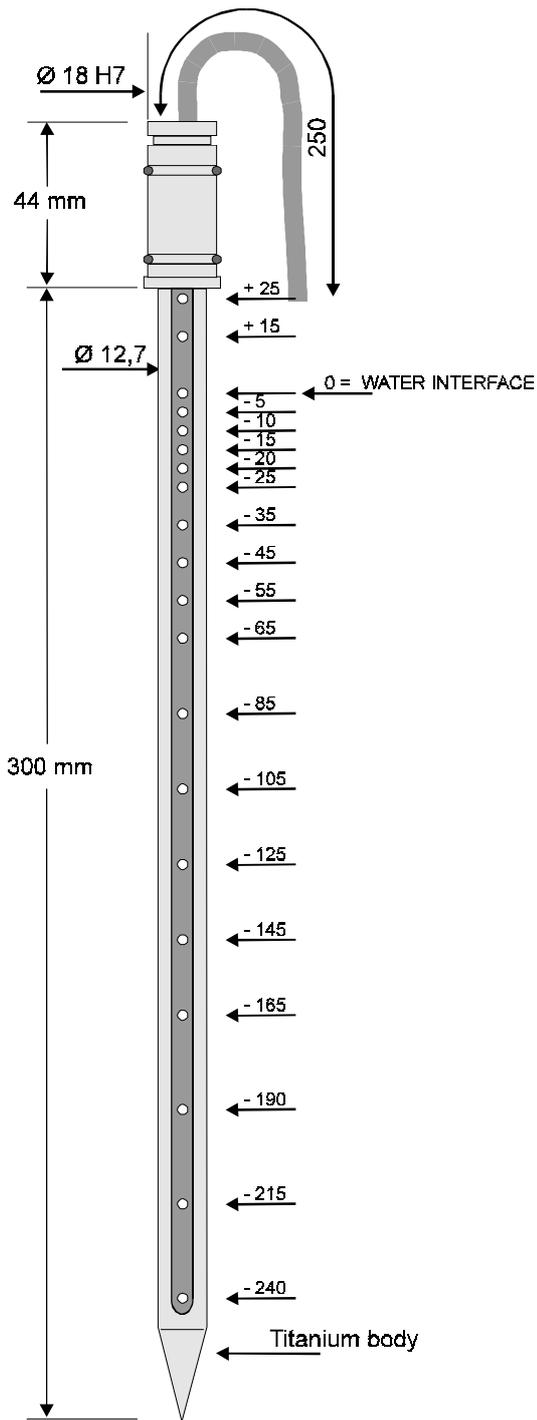
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**OCEAN SEVEN 316 PROBE
 REDOX MICROPROFILER**

TECHNICAL SPECIFICATIONS

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REDOX SENSOR WITH 20 PLATINUM ELECTRODES

TECHNICAL SPECIFICATIONS

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