



Borgo Grotta Gigante (TS), 4 March 2003

Prot. 888/03  
Ref. OGA/NM

The Director  
National Institute of Biology  
Marine Biology Station  
Piran

cc: Dr. V. Malačič  
cc: Dr. R. Mosetti (OGS), D. Viezzoli (OGS)

**Re: CTD calibration**

Dear Sir,

We are sending you herewith the report regarding the calibration of your CTD (IDRONAUT OS316, serial no. 0202229; see your fax to us dated 20-02-03, as also pertinent correspondence between Dr. V. Malačič of your institute and Dr. D. Viezzoli of the OGS).

Yours sincerely,

Dr. Alessandro Crise  
Dipartimento OGA, OGS

A handwritten signature in black ink, appearing to be 'A. Crise', written in a cursive style.



ISTITUTO NAZIONALE  
DI **O**CEANOGRAFIA E DI **G**EOFISICA **S**PERIMENTALE – OGS  
DIPARTIMENTO OGA - CTO

# Test Report

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Unit Under Test (UUT):

**IDRONAUT OS316**  
**s/n 0202229**

Approved for release by:

A handwritten signature in blue ink, appearing to read 'A. Crise'.

Dr. A. Crise, Dipartimento OGA



## Test Report

**UUT: IDRONAUT OS316**  
s/n 0202229

**Parameter : Temperature**  
**Conductivity**

**Date: 04 March 2003**

Ambient conditions

Temperature : 21° C ± 2° C

Relative Humidity : 50% ± 10%

### Test Equipment

| Instrument                    | Model           | Serial no. |
|-------------------------------|-----------------|------------|
| Seawater Calibration Bath     | Guildline 5010  | 66318      |
| Portable Salinometer          | Guildline 8010  | 60834      |
| Precision Digital Thermometer | Hart - 1590     | A1A164     |
| Metal-sheath SPRT             | Rosemount 162CE | 1844       |

Measurements performed by: Nevio Medeot, Rajesh Nair, Paolo Mansutti

Approved by:

N. Medeot, CTO Group



## Temperature calibration sheet

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Temperature (°C; IPTS-68)

| <b>SPRT<br/>TEMP. REF.<br/>(°C)</b> | <b>UUT<br/>COUNTS<br/>(Counts)</b> | <b>UUT<br/>TEMP. CALC.<br/>(°C)</b> | <b>RESIDUALS<br/>UTT – REF<br/>(°C)</b> |
|-------------------------------------|------------------------------------|-------------------------------------|---|
| 5.0184                              | 102.046                            | 5.018                               | -                                       |
| 10.0129                             | 103.999                            | 10.013                              | -                                       |
| 15.0107                             | 105.949                            | 15.010                              | -                                       |
| 20.0044                             | 107.895                            | 20.004                              | -                                       |
| 24.9988                             | 109.838                            | 24.998                              | -                                       |

| <b>Calibration coefficients</b> |              |
|---------------------------------|--------------|
| A                               | -244.57866   |
| B                               | 2.3359592    |
| C                               | 0.0010775949 |



## Conductivity calibration sheet

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Conductivity ( $\text{mScm}^{-1}$ )

| TEMP. REF.<br>SPRT<br>(°C) | SAL. REF.<br>(psu) | REF.<br>COND. CALC.<br>( $\text{mScm}^{-1}$ ) | UT<br>COUNTS<br>(Counts) | UT<br>COND. CALC.<br>( $\text{mScm}^{-1}$ ) | RESIDUALS<br>UTT - REF<br>( $\text{mScm}^{-1}$ ) |
|----------------------------|--------------------|---|--------------------------|---|--|
| 5.0184                     | 38.517             | 36.4791                                       | 64.565                   | 36.479                                      | -  |
| 10.0129                    | 38.519             | 41.5103                                       | 73.462                   | 41.511                                      | 0.001  |
| 15.0107                    | 38.528             | 46.7623                                       | 82.737                   | 46.760                                      | 0.002  |
| 20.0044                    | 38.536             | 52.1977                                       | 92.343                   | 52.199                                      | 0.001  |
| 24.9988                    | 35.555             | 57.8154                                       | 102.258                  | 57.815                                      | -  |

| Calibration coefficients |               |
|--------------------------|---------------|
| A                        | 0.022728177   |
| B                        | 0.56374139    |
| C                        | 1.3866447e-05 |