

ISO 22804:2023-08 (E)

Marine technology - General technical requirement of marine conductivity-temperature-depth (CTD) measuring instrument

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Technical specifications	3
4.1	General	3
4.2	Instrument appearance	3
4.2.1	Cosmetic requirements	3
4.2.2	Product identification	3
4.2.3	Instrument fastener	3
4.3	Measuring performance of instrument and product	3
4.4	Instrument and product environmental adaptability	4
4.5	Instrument and product interface and data format	4
5	Test methods	4
5.1	Test instrument and equipment	4
5.2	Appearance inspection	5
5.3	Instrument and product interface and data format checking	5
5.4	Measurement performance test	5
5.4.1	Test requirements	5
5.4.2	Selected test points	5
5.4.3	Test preparation	6
5.4.4	Accuracy measurement of temperature and conductivity	6
5.4.5	Temperature and conductivity accuracy test	6
5.4.6	Pressure accuracy test	7
5.4.7	Resolution test	8
5.4.8	Stability test	8
5.5	Environmental adaptability test	8
6	Test requirements	9
6.1	Number of instruments to be tested	9
6.2	Test process	9
6.3	Qualification requirements	9
6.4	Delivery requirements	9
6.5	Supporting documents	9
7	Marking, packaging, transportation, storage	10
7.1	Marking	10
7.1.1	Nameplate mark	10
7.1.2	Packing mark	10
7.2	Packaging	10
7.2.1	Packaging requirements	10
7.2.2	Supporting items	10
7.3	Transportation	10
7.3.1	Means of transport	10

7.3.2	Transport requirement	11
7.4	Storage	11
7.4.1	Storage environment	11
7.4.2	Storage requirements	11
8	User software	11
8.1	General	11
8.2	Measurement management	11
8.3	Parameter calculation	11
8.4	Data processing	12
Annex A (informative) Examples of record tables for CTD measuring instrument accuracy test data		13
Annex B (informative) Calculation of practical salinity		16
Annex C (informative) Pressure to depth conversion		19
Bibliography		20