

# PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

## **ISCO 3700 Portable Water & Waste Water Sampler**

Manufactured by:

### **Teledyne ISCO**

4700 Superior Street  
Lincoln, NE,  
USA  
68504-1398

has been assessed by Sira Certification Service  
And for the conditions stated on this certificate complies with:

**MCERTS Performance Standards for Continuous Water  
Monitoring Equipment – Part 1, Version 4 dated April 2017  
EN16479:2014**

Certification Ranges :

0 to 3.7m lift height

Project No.: 16W32991/70220072  
Certificate No: Sira MC140245/02  
Initial Certification: 04 March 2014  
This Certificate issued: 18 November 2019  
Renewal Date: 03 March 2024



Emily Alexander  
Environmental Project Engineer

MCERTS is operated on behalf of the Environment Agency by

## **Sira Certification Service**

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## Approved Site Application

*Any potential user should ensure, in consultation with the manufacturer, that the monitoring system is suitable for the intended application. For general guidance on monitoring techniques refer to the Environment Agency Monitoring Technical Guidance Notes available at [www.mcerts.net](http://www.mcerts.net)*

The product is suitable for use on applications for compliance with the Urban Wastewater Treatment Regulations

## Basis of Certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

WRC report	Report Number UC9847 V0.2 dated December 2013
MCERTS	Evaluation Report 70220072_3700 dated October 2019

## Product Certified

The 3700 portable waste water sampler consists of the following parts:

- 3700 control panel
- 3700 pump assembly
- 3700 distributor assembly
- Top cover
- Center section
- Bottle base

This certificate applies to all instruments fitted with software version 4.6 onwards (serial number 213A00772 onwards).

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## Certified Performance

The instrument was evaluated for use under the following conditions:

Ambient Temperature Range: 0°C to +50°C

Results are expressed as error % of certification range, unless otherwise stated.

Test	Results		MCERTS specification
Sample Collection	Flow proportional and timed sampling available Certified for use with single 9, 9.5, 10, and 15 litre composite sample bottles and 24 x 1 litres, 24 x 500 ml, 24 x 350 ml, and 4 x 3.8 litres bottles		Clause 3.1.2
Sample Interval	Sample interval range is 1 min to 99 hours, 59 minutes with increments of 1 min is selectable. 4-20mA and pulse inputs are available 1min to 9,999 flow pulses with increments of 1 pulse.		Clause 3.1.2
Sample line diameter (internal)	9.5mm		Clause 3.1.2
Sample volume	Sample volume adjustable over the range 10 to 9,990 ml in 1 ml increments.		Clause 3.1.2
Maximum volume of a discrete sample that can be set Total storage capacity both by numbers and volumes of individual bottles and in a composite container	9,990 ml The following are available: 9, 9.5, 10, and 15 litre composite sample bottles and 24 x 1 litres, 24 x 500 ml, 24 x 350 ml, and 4 x 3.8 litres bottles		Clause 3.1.2
Maximum sampling head	3.7 meters		Clause 3.1.2
Sampling volume error	U*	X*	Clause 6.4.1.1
a) Time proportional for the sampler	1.67% at 1m 1.82% at 2m m 1.67% at 5m m <b>Overall: 1.7 %</b>	-2.14 at 1m -0.96 at 2 m -4.96 at 5 m <b>Overall: -2.69%</b>	Note 1 <5.0%
Sampling volume error	U*	X*	Clause 6.4.1.1.
a) CVVT	2.83% at 1m 3.2% at 2 m 4.3% at 5 m <b>Overall: 3.44%</b>	-1.79% at 1m -3.71% at 2 m -1.56% at 5 m <b>Overall: -1.31%</b>	Note 1 <5.0%
Sampling principles a) CVVT analogue flow signal	0.47%		Clause 6.4.2.4

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Test	Results		MCERTS specification
Sampling principles b) Event triggered sampling	0.03%		Clause 6.4.2.5
Sample line velocity	0.6 m/s at 2m sampling head 0.53 m/s at 3m sampling head		Clause 6.4.3 >0.5m/s
Supply voltage	1m lift height: $\geq 0.515$ m/s at 9.5-13V 2.5m lift height: $\geq 0.518$ m/s at 11-13V 3.7m lift height: $\geq 0.55$ m/s at 12-13V		Clause 6.4.4 >0.5m/s
Sample integrity	No statistically significant difference found in the analysis for BOD, COD, total N and total P		Clause 6.4.5 Annex B5
Sample timing error	+2 seconds		Clause 6.4.6 < $\pm 10$ sec/24hr
Sample temperature control a) volumetric	U* 1.7% at 0°C 2.46 at 50°C	X* 0.99% at 0°C -2.46% at 50°C	Clause 6.4.7.2 $\pm 5\%$

Note 1: \*U: Expanded uncertainty, \*X: Mean error

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## Description

The 3700 Portable Sampler System consists of a 3700 Sampler Controller mounted on ABS plastic for easy transport and insulated cooling with ice.

The 3700 Sampler Controller is housed in a sealed Noryl plastic enclosure and includes a peristaltic pump to bring the sample to a sample container located in the sampler base. The sample is transported by 3/8" (9.5 mm) I.D. PVC or 3/8" (9.5 mm) I.D. Teflon suction line. The controller is powered by 12V dc and provides user programmable sampler features via a keypad and display on the controller.

## General Notes

1. This certificate is based upon the equipment tested. The Manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this Certificate. The Manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management system shall be subject to regular surveillance according to 'Regulations Applicable to the Holders of Sira Certificates'. The design of the product certified is defined in the Sira Design Schedule for certificate No. Sira MC140245/00
2. If certified product is found not to comply, Sira Certification Service should be notified immediately at the address shown on this certificate.
3. The Certification Marks that can be applied to the product or used in publicity material are defined in 'Regulations Applicable to the Holders of Sira Certificates'.
4. This document remains the property of Sira and shall be returned when requested by the company.

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