

# PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

## ***ISCO 6712 Portable Water and Waste Water Sampler***

Manufactured by:

### ***Teledyne ISCO***

4700 Superior Street  
Lincoln  
Nebraska  
NE 68504  
USA

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**

Certification Ranges :

Lift height            0 to 7 metres

Project No.            : 16W29523/70176753  
Certificate No        : Sira MC140243/00  
Initial Certification   : 06 February 2014  
This Certificate issued : 05 February 2018  
Renewal Date         : 05 February 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 UC3371 dated March 1999
WRc report	Report Number UC9586 v0.2 dated May 2013
WRc report	Report Number UC9836 dated November 2013

## Product Certified

The 6712 portable waste water sampler consists of the following parts:

- 6712 control panel
- 6712 pump assembly
- 6712 distributor assembly

This certificate applies to all instruments fitted with software version 1.00.0006 onwards (serial number 213A00001 onwards).

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## Certified Performance

The instrument was evaluated for use under the following conditions:

Ambient Temperature Range: 0°C to +40°C

Test	Results	MCERTS specification
Sample Collection	Flow proportional and timed sampling available	Clause 3.1.3
Sample interval	Sample interval range is 1 min to 99 hours, 59 minutes with increments of 1 min is selectable 4-20mA and pulse outputs are available 1min to 9,999 flow pulses with increments of 1 pulse.	Clause 3.1.4 & 3.1.5
Sample failure	Sample failures are recorded. Fault indicated on display	Clause 3.1.6 & 3.1.7
Sample line diameter	9.52 mm.	Clause 3.1.8 >9mm
Sample volume	Sample volume adjustable over the range 10 to 9,990ml in 1ml increments	Clause 3.1.9
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	1000ml The following are available: 24x 1L or 350ml 12x 1L or 950ml 8x 2L or 1.8L 4x 3.78L 1x 20.8L, 15L, 10L or 9.5L	Clause 3.2.1
Maximum sampling head	Certified for 7 metres	Clause 3.2.2

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Test	Results	MCERTS specification
Sample volume error – Time proportional	<p>Expanded Uncertainty (U):</p> <p>2.03% at 1m</p> <p>1m</p> <p>3.29% at 3.5m</p> <p>2.76% at 7m</p> <p>7m</p> <p>Overall: 2.69%</p> <p>Mean Error (X):</p> <p>2.69% at</p> <p>-2.46% at 3.5m</p> <p>4.31% at</p> <p>Overall: 3.15%</p>	<p>Clause 6.2.1a)</p> <p>&lt;5%</p> <p>&lt;5%</p> <p>&lt;5%</p> <p>&lt;5%</p>
Sample line velocity	<p>0.53 m/s at 1m sampling head</p> <p>0.53 m/s at 2m sampling head</p> <p>0.55 m/s at 3m sampling head</p> <p>0.54 m/s at 4m sampling head</p> <p>0.54 m/s at 5m sampling head</p> <p>0.54 m/s at 6m sampling head</p> <p>0.55 m/s at 7m sampling head</p>	<p>Clause 6.2.2</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p> <p>&gt;0.5 m/s</p>
Sample integrity	No statistically significant difference was found in analysis for BOD, COD, suspended solids, total nitrogen and total phosphorous	Clause 6.2.3
Sample timing	6 seconds per 24 hours	<p>Clause 6.2.4</p> <p>&lt; ±10 sec/24h</p>
<p>Ambient temperature effects</p> <ul style="list-style-type: none"> <li>Sampler without sample temperature control</li> </ul>	<p>0.0% at 0°C</p> <p>1.6% at 20°C</p> <p>3.3% at 40°C</p>	<p>Clause 6.2.5 a)</p> <p>&lt;5%</p> <p>&lt;5%</p> <p>&lt;5%</p>

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## Description

The 6712 Portable Sampler System consists of a 6712 Sampler Controller enclosed in ABS/PVC blend plastic for protection and for housing the sample bottle(s). There are two sizes of samplers; full size and compact.

The 6712 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 refrigerator. The sample is transported by 3/8 inch I.D. PVC or 3/8 inch I.D. PTFE lined suction line. The controller is powered by 12Vdc and provides user programmable sampler features via a keypad and display on the controller. Plug-in modules provide in-situ monitoring capabilities using the following technologies: Ultrasonic level, Submerged Transducer level, Bubbler level, Area Velocity level and velocity, and pH.

## 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 MC140243/00
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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