

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 CSA Group
and for the conditions stated on this certificate complies with:

**Performance Standards and Test Procedures for Continuous Water
Monitoring Equipment, Part 1: Performance standards and test procedures for Automatic
Water Sampling Equipment, Environment Agency, version 4, April 2017**

Certification Ranges:

Lift height 0 to 6 metres

Project number: 80174413
Certificate number: CSA MC140243/04
Initial certification: 06 February 2014
This certificate issued: 07 July 2023
Renewal date: 07 July 2028



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Environmental Team Manager

MCERTS is operated on behalf of the Environment Agency by

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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

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
MCERTS	Evaluation Report 70220072_6712 dated October 2019

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 3.1.2
Sample interval	Sample interval range is 1 min to 99 hours, 59 minutes with increments of 1 min is selectable 4-20mA and pulse outputs are available 1min to 9,999 flow pulses with increments of 1 pulse.	Clause 3.1.2
Sample failure	Sample failures are recorded. Fault indicated on display	Clause 3.1.2
Sample line diameter	9.52 mm.	Clause 3.1.2 >9mm
Sample volume	Sample volume adjustable over the range 10 to 9,990ml in 1ml 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	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 3.1.2
Maximum sampling head	Certified for 6 metres	Clause 3.1.2

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Test	Results		MCERTS specification
Sample volume error a) Time proportional for the sampler	U* 2.03% at 1m 3.29% at 3.5m 2.76% at 7m Overall: 2.69%	X* 2.69% at 1m -2.69% at 1m 4.31% at 7m Overall: 3.15%	Clause 6.4.1.1 <5% Note 1
Sample line velocity	0.53 m/s at 1m sampling head 0.53 m/s at 2m sampling head 0.55 m/s at 3m sampling head 0.54 m/s at 4m sampling head 0.54 m/s at 5m sampling head 0.54 m/s at 6m sampling head		>Clause 6.4.3 >0.5 m/s
Supply voltage	1m lift height: ≥ 0.69 m/s at 10-13V 3m lift height: ≥ 0.534 m/s at 10-13V 6m lift height: ≥ 0.562 m/s at 12-13V		Clause 6.4.4 >0.5m/s
Sample integrity	No statistically significant difference was found in analysis for BOD, COD, suspended solids, total nitrogen and total phosphorous		Clause 6.4.5
Sample timing	6 seconds per 24 hours		Clause 6.4.6 < ± 10 sec/24h
Ambient temperature effects • Sampler without sample temperature control	U* 1.2% at 0°C 2.2 at 20°C 1.6 at 40°C	X* 0.0% at 0°C 1.6% at 20°C 3.3% at 40°C	Clause 6.4.7.2 < $\pm 5\%$ Note 1

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

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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 CSA Certificates'. The design of the product certified is defined in the CSA Design Schedule V01 for certificate No. Sira MC140243/03.
2. If the certified product is found not to comply, CSA Group 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 CSA Certificates'.
4. This document remains the property of CSA Group and shall be returned when requested by CSA Group.

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