

Avalanche Sampler Safety and Certification Sheet

Overview

This document contains the required safety and regulatory information for the Avalanche Samplers. The Avalanche Sampler Installation and Operation Guide and Warranty Statement are available and can be downloaded from www.teledyneisco.com.

CAUTION

Cautions identify a potential hazard, which if not avoided, may result in minor or moderate injury. This category can also warn you of unsafe practices, or conditions that may cause property damage.

WARNING





Warnings identify a potentially hazardous condition, which if not avoided, could result in death or serious injury.

DANGER

DANGER – limited to the most extreme situations to identify an imminent hazard, which if not avoided, will result in death or serious injury.









Hazard Symbols

Warnings and Cautions

	The exclamation point within the triangle is a warning sign alerting you of important instructions in the instrument's technical reference manual.
	The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.
 	Pinch point. These symbols warn you that your fingers or hands will be seriously injured if you place them between the moving parts of the mechanism near these symbols.

Hazard Symbols (Continued)

Symboles de sécurité

	Ce symbole signale l'existence d'instructions importantes relatives au produit dans ce manuel.
	Ce symbole signale la présence d'un danger d'électrocution.
 	Risque de pincement. Ces symboles vous avertit que les mains ou les doigts seront blessés sérieusement si vous les mettez entre les éléments en mouvement du mécanisme près de ces symboles
Warnungen und Vorsichtshinweise	
	Das Ausrufezeichen in Dreieck ist ein Warnzeichen, das Sie darauf aufmerksam macht, daß wichtige Anleitungen zu diesem Handbuch gehören.
	Der gepfeilte Blitz im Dreieck ist ein Warnzeichen, das Sie vor "gefährlichen Spannungen" im Inneren des Produkts warnt.
 	Vorsicht Quetschgefahr! Dieses Symbol warnt vor einer unmittelbar drohenden Verletzungsgefahr für Finger und Hände, wenn diese zwischen die beweglichen Teile des gekennzeichneten Gerätes geraten.

Before installing, operating, or maintaining this equipment, it is imperative that all hazards and preventive measures are fully understood. While specific hazards may vary according to location and application, take heed in the following general warnings:

Technical assistance for the Teledyne ISCO Avalanche Sampler can be obtained from:
Teledyne ISCO
4700 Superior St.
Lincoln NE 68504

Phone: (800) 228-4373 or (402) 464-0231
Fax: (402) 465-3022
E-mail: IscoService@teledyne.com or Iscoeps@teledyne.com

Use and Disclosure of Data

Information contained herein is classified as EAR99 under the U.S. Export Administration Regulations. Export, reexport or diversion contrary to U.S. law is prohibited.

 **WARNING**

Avoid hazardous practices! If you use this instrument in any way not specified in this manual, the protection provided by the instrument may be impaired.

 **AVERTISSEMENT**

Éviter les usages périlleux! Si vous utilisez cet instrument d'une manière autre que celles qui sont spécifiées dans ce manuel, la protection fournie de l'instrument peut être affaiblie; cela augmentera votre risque de blessure.

 **WARNING**

Be sure the power is disconnected from the unit before you exchange the pump tubing. The pump is extremely powerful. If the sampler activates the pump while you are manipulating the tubing within the pump, you may be seriously injured.

 **WARNING**

Electrocution hazard. Never manipulate electrical switches or power connections with wet hands or when your feet are in contact with water.

 **WARNING**

AC electrical power must meet the applicable electrical code requirements for your installation and must be provided with an earth ground connection. If necessary, consult with a certified electrician to ensure that AC power is provided in accordance with the local electrical code.

 **WARNING**

Never modify the AC power cord or use a three-prong to two-prong adapter.

 **WARNING**

If this device's power cord is frayed or otherwise damaged, discontinue its use immediately. The AC power cord is not user-serviceable and must be returned to the factory for repair or replacement.

 **WARNING**

This instrument has not been certified for use in "hazardous locations" as defined by the National Electrical Code.

 **WARNING**

The sampler has a safety interlock that prevents the pump from operating when the pump housing band is open. DO NOT tamper with the pump housing and band. The pump is extremely powerful. The pump can injure you severely if the sampler activates the pump while you are working on it. Place the sampler controller in the Standby state before opening the pump housing.

 **WARNING**

Danger of explosion if lithium battery is incorrectly replaced. Replace with the same type, ensuring correct polarity. Do not dispose of used lithium battery in fire. Dispose of battery in accordance with local laws or authority.

 **CAUTION**

Removing the controller exposes the electrical connector. Do not apply power to the Glacier while the controller is removed. Close the controller cover to protect the exposed connector and to prevent injuries.

 **CAUTION**

Tests indicate that the pump produces sound levels in excess of 85db at one meter. Prolonged exposure to this sound level could result in hearing loss and requires the use of protective ear plugs.

 **CAUTION**

Positions other than the Glacier's normal upright position will drain the lubricant away from the refrigerator compressor. Operation without adequate lubrication may permanently damage the refrigeration system. If the Glacier is turned over for more than a few seconds, the Glacier's refrigeration system must not be operated for at least one hour after returning the Glacier to its upright position.

 **CAUTION**

Prolonged exposure to noise while the pump is operating could result in hearing loss. Tests indicate that the pump produces sound levels in excess of 85db at one meter. If you are operating the pump for long durations, always wear hearing protection.

DECLARATION OF CONFORMITY



Application of Council Directive: 2014/30/EU – The EMC Directive
2014/35/EU – The Low Voltage Directive
2011/65/EU – The RoHS Directive

Manufacturer's Name: Teledyne Isco
Manufacturer's Address: 4700 Superior, Lincoln, Nebraska 68504 USA
Mailing Address: P.O. Box 82531, Lincoln, NE 68501

Equipment Type/Environment: Laboratory Equipment for Light Industrial/Commercial Environments

Trade Name/Model No: Avalanche Sampler

Year of Issue: 2017

Standards to which Conformity is Declared:	EN 61326-1:2013	EMC Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
	EN 61010-1:2010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use
	EN 60529:1992/A2:2013	Degrees of Protection Provided by Enclosure
	& NEMA:	Controller: NEMA 4X
		Refrigerator: IP-53

I, the undersigned, hereby declare that the design of the equipment specified above conforms to the above Directives and Standards as of July 17, 2017.

Edward J. Carter
USA Representative

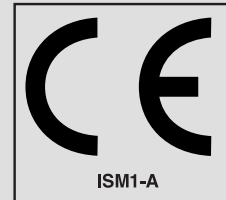


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Rev C

DECLARATION OF CONFORMITY



Application of Council Directive: 89/336/EEC – The EMC Directive
73/23/EEC – The Low Voltage Directive

Manufacturer's Name: Teledyne Isco, Inc.
Manufacturer's Address: 4700 Superior, Lincoln, Nebraska 68504 USA
Mailing Address: P.O. Box 82531, Lincoln, NE 68501

Equipment Type/Environment: Laboratory Equipment for Light Industrial/Commercial Environments
Trade Name/Model No: 4200T Modem
Year of Issue: 2001

Standards to which Conformity is Declared: EN 55024-1998 EMC Requirements for Information Technology Equipment
EN 60950 Safety Requirements for Information Technology Equipment
FCC Part 68

Standard	Description	Severity Applied	Performance Criteria
EN61000-4-2	Electrostatic Discharge	Level 2 - 4kV contact discharge Level 3 - 8kV air discharge	B B
EN61000-4-3	Radiated RF Immunity	80 MHz to 1000MHz 80% AM at 1kHz Level 1 – 10V/m	A
EN61000-4-4	Electrical Fast Transient	Level 2 - 2kV on ac lines	B
EN61000-4-5	Surge on AC Lines	2kV common mode, 1kV differential mode	B
EN61000-4-6	Conducted RF on AC lines	150 kHz to 80 MHz, 3V rms, 80% modulated	B
EN61000-4-11	Voltage Dips/Short Interruptions	0.5 cycle, each polarity/100%	B
EN 55022	RF Emissions	Group 1, Class A, Information Technology Equipment	
EN61000-3-2, 3-3	Harmonic, Flicker		

We, the undersigned, hereby declare that the design of the equipment specified above conforms to the above Directive(s) and Standards as of July 5, 2001.

William Foster
USA Representative



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Rev. A

产品中有毒有害物质或元素的名称及含量

Name and amount of Hazardous Substances or Elements in the product

部件名称 Component Name	有毒有害物质或元素 Hazardous Substances or Elements					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二联苯 (PBDE)
线路板 Circuit Boards	X				O	O
显示 Display	X				O	O
接线 Wiring	O				X	O
内部电缆 Internal Cables	O				X	O
压缩机 Compressor	O				X	O
绝缘, 绝热 Insulation	O				X	O
主电源线 Line Cord	O				X	O
电源 Power Supply	X				X	O
直流电机 DC Motor	X				X	O
小键盘 Keypad	O				X	O

产品中有毒有害物质或元素的名称及含量：Name and amount of Hazardous Substances or Elements in the product

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在ST/ 标准规定的限量要求以下。

O: Represent the concentration of the hazardous substance in this component's any homogeneous pieces is lower than the ST/ standard limitation.

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出ST/ 标准规定的限量要求。

(企业可在此处，根据实际情况对上表中打“X”的技术原因进行进一步说明。)

X: Represent the concentration of the hazardous substance in this component's at least one homogeneous piece is higher than the ST/ standard limitation.

(Manufacturer may give technical reasons to the "X"marks)

环保使用期由经验确定。

The Environmentally Friendly Use Period (EFUP) was determined through experience.

生产日期被编码在系列号码中。前三位数字为生产年(207 代表 2007 年)。随后的一个字母代表月份：

A 为一月，B 为二月，等等。

The date of Manufacture is in code within the serial number. The first three numbers are the year of manufacture (207 is year 2007) followed by a letter for the month. "A" is January, "B" is February and so on.