



# Certificate of Compliance

Certificate: 70083556

Master Contract: 250369

Project: 70083556

Date Issued: 2016-09-14

Issued to: **SensoTech GmbH**  
**Steinfeldstrasse 1**  
**39179 Magdeburg-Barleben**  
**GERMANY**  
Attention: **Mr. Sven Scheffler**

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only*



Issued by: Michael Janker  
*Michael Janker*

## PRODUCTS

CLASS 2253-01 – INDUSTRIAL AUTOMATION PRODUCTS

CLASS 2253-81 – INDUSTRIAL AUTOMATION PRODUCTS – CERTIFIED TO US STANDARDS

Open type Controller for concentration measuring system for liquids, Model series LiquiSonic x.  
Rated 100-240 Vac, 50/60 Hz, max. 35 W or 24 Vdc, max. 35 W,  
detachable cord connected, single phase equipment (AC variant), class I (protective earth connected for AC variant) or class III (for DC variant), pollution degree 2, installation category II (for AC variant) or installation category I (for DC variant), where type designation code is:

### **LiquiSonic x**

Where “x” may be “20”, or  
“30”, or  
“40”, or  
“50”,

Where “x” denotes secondary differences not affecting safety.



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Notes:

1. Mode of operation: Continuous
2. Environmental Conditions: Extended/as specified by manufacturer: 0 to +50 °C, 2000 m max, humidity 20 % up to 80 % r.h.

**APPLICABLE REQUIREMENTS**

- |                                |   |
|--------------------------------|---|
| AN/CSA-C22.2 No. 61010-1-12    | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements                               |
| CAN/CSA-IEC 61010-2-201-14     | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment |
| UL 61010-1 (Third Edition)     | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements                              |
| UL 61010-2-201 (First Edition) | - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment |

**CONDITIONS OF ACCEPTABILITY**

1. Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.
2. If at any time there is a conflict between the system safety provisions and any relevant local (national or regional) requirements, the local requirements always take precedence.
3. The controllers are “open type” according to IEC 61010-2-201:2013. Therefore the controller shall be installed within another enclosure which provides the safety aspects protecting the operator from mechanical and electrical hazards and shall be accessible only by authorized personnel. This metal enclosure is required to serve as fire enclosure.
4. Equipment has only been tested for electrical safety. No evaluation of functional safety and performance characteristics have been performed.
5. The DC variants are required to be supplied only by certified power supply providing reinforced or double insulation for protection against electric shock with output voltages below the limits of 6.3.1 of 61010-1 or 30 V r.m.s. and 42.4 V peak or 60 Vdc.
6. Equipment is not to be used with explosive or flammable liquids.
7. All secondary output circuits are considered as not hazardous live.
8. The DC input shall be separated from hazardous live voltages by double or reinforced insulation, and be supplied by a power source with a limited energy circuit output.
9. A disconnecting device shall be provided in the building installation.
10. External fuse shall be installed in end-use installation, rated 250 Vac, slow blow type, max. 4 A.



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70083556	2016-09-14	Original Certification of Open type Controller model series LiquiSonic 20/30/40/50 to the requirements of CSA-C22.2 No. 61010-1-12, CAN/CSA-IEC 61010-2-201-14, UL 61010-1 (Third Edition) and UL 61010-2-201 (First Edition).