

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx ETL 21.0036X	Page 1 of 3	Certificate history

Status: Current Issue No: 0

Date of Issue: 2021-07-26

Applicant: Metrix Instruments Co. LP

> 8824 Fallbrook Dr Houston 77064-4855 **United States of America**

Equipment: **Signal Conditioner**

Optional accessory:

Type of Protection: Increased Safety "ec", Sealed Device "nC"

Ex ec nC IIC T4 Gc Marking:

IECEx ETL 21.0036X

5580 (-40°C ≤ Ta +85°C)

SW5580 (-40°C ≤ Ta +65°C)

Approved for issue on behalf of the IECEx Todd L. Relyea Certification Body:

Position: **Certification Officer**

Signature:

(for printed version)

Date:

- 1. This certificate and schedule may only be reproduced in full.
- This certificate is not transferable and remains the property of the issuing body.
- 3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Intertek 3933 US Route 11 South Cortland NY 13045-2995 **United States of America**



METRIX DOC NO: 1915576

REV; A



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Manufacturer: Metrix Instruments Co. LP

8824 Fallbrook Dr Houston 77064-4855 **United States of America**

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

Quality Assessment Report:

GB/BAS/QAR10.0017/07

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The products covered by this report are DIN rail mounted smart vibration signal conditioners and switch (SW5580 model only) from Metrix. The SW5580 is similar to 5580, but each channel comes with two relays either dry contacts or solid state relay contacts that can be configured for alarm level and time delay.

They have been designed to accept signals from machine casing mounted velocity sensors, accelerometers or shaft observing proximity probe systems and produce a 4-20 mA output proportional to the measured variable and an amplified raw signal. It provides the user with a configurable signal input type for one or two independent channels plus a configurable feature to scale output either to peak or RMS units. For each channel, a green LED indicates sensor and cable integrity. In the event of sensor failure, the LED changes to red and the output current is driven below 3.6 mA, thereby signalling a malfunction. A BNC connector gives access to the raw input signal for local analysis. A built-in 4digit LCD display is used to display both dynamic input and 4-20 mA output signal. Isolation is provided between input, outputs and supply.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The maximum internal equipment surface temperature measured according test conducted per Clause 26.5.1 IEC/EN/UL/CSA 60079-0 Standard was 91.84°C (@ 65°C ambient) for SW5580 model and 111.84°C (@ 85°C ambient) for 5580 model. End user must verify that the enclosure in which this equipment is installed is suitably rated for service per these temperatures.
- Equipment shall be installed in an Ex certified enclosure that is tool secured which provides a minimum ingress protection of IP54. The equipment must be mounted on a vertical or horizontal rail within the enclosure.
- Coaxial connections provided for the access to the input signal reference circuit ground. Care shall be taken whilst installing the equipment to ensure a dielectric isolation of 500Vrms is maintained.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Transient protection shall be provided on the supply to limit transients not to exceed 33.6VDC.

Annex:

G104621114 Annex for IECEx Certificate of Conformity.pdf

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Annex to IECEx Certificate of Conformity

Octumbate IVO.		Issue No. 0
	IECEx ETL 21.0036X	
Annex No. 1		

Technical Documents					
Title:	Drawing No.:	Rev. Level:	Date:		
PARTS LIST, ANALOG PCB, 5580, SIGNAL CONDITIONER, AGENCY	100995-AGENCY	В	05/11/2021		
PARTS LIST, DIGITAL PCB, 5580, SIGNAL CONDITIONER, ROHS, AGENCY	100998-AGENCY	А	10/26/2020		
PARTS LIST, ASSY, INTERCONNECT PCB, 5580, SIGNAL CONDITIONER, ROHS, AGENCY	101050-AGENCY	В	05/11/2021		
PARTS LIST, ASSY, INTERCONNECT PCB, SW5580, SOLID STATE SWITCHES, RoHS, AGENCY	101051-AGENCY	В	05/11/2021		
PARTS LIST, INTERCONNECT PCB, SW5580, ELECTROMECHANICAL RELAYS, SWITCH, AGENCY	101004-AGENCY	В	05/11/2021		
PARTS LIST, FRONT PCB, 5580, SIGNAL CONDITIONER, AGENCY	101001-AGENCY	В	05/11/2021		
Analog BOARD-AGENCY	100993-AGENCY	В	05/11/2021		
SCH, DIGITAL PCB, 5580, SIGNAL CONDITIONER, RoHS, AGENCY	100996-AGENCY	А	07/23/2020		
INTERCONNECT BOARD, AGENCY	101002-AGENCY	В	05/11/2021		
Front Panel-AGENCY	100999-AGENCY	В	05/11/2021		
5580 Smart Vibration Signal Conditioner & SW5580 Dual Channel Configurable Switch Datasheet	1899675	В	June 2021		
Installation Manual	1874512	В	June 2021		
SIDE LABEL, AGENCY APPROVALS, SIGNAL CONDITIONER, 5580 & SMART SWITCH, SW5580, AGENCY	101031-XXX-AGENCY	В	06/08/2021		

Note: An * is included before the title of documents that are new or revised.

