

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 FMG 23.0019X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2023-09-18		
Applicant:	Sierra Instruments Inc. 5 Harris Court Building L Monterey, CA 93940 United States of America		
Equipment:	645S, 745S and TM100 Series Thermal Mas	s Gas Flow Meter and Temperatur	e Transmitter
Optional accessory:			
Type of Protection:	Flameproof, d; Enclosure, t		
Marking:	IECEx FMG 23.0019X		
	Ex db IIB+H2 T4 Gb Ta = -40°C to +70°C, IP6	6/67	
	Ex tb IIIC T135°C Db Ta = -40°C to +70°C, IP	66/67	
Approved for issue of Certification Body:	n behalf of the IECEx	J. E. Marquedant	
Position:		VP, Manager - Electrical System	IS
Signature: (for printed version)			
Date: (for printed version)			
2. This certificate is no	schedule may only be reproduced in full. transferable and remains the property of the issuing body enticity of this certificate may be verified by visiting www.i	/. ecex.com or use of this QR Code.	
Certificate issued	l by:		
FM Approvals 1151 Boston-Pr Norwood, MA 0	ovidence Turnpike	<	FM Approvals

Member of the FM Global Group

United States of America



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Manufacturer:	Sierra Instruments Inc. 5 Harris Court Building L Monterey, CA 93940 United States of America	
Manufacturing locations:	Sierra Instruments Inc. 5 Harris Court Building L Monterey, CA 93940 United States of America	

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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 Report:

US/FMG/ExTR23.0020/00

Quality Assessment Report:

GB/FME/QAR13.0016/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

a-b-c-d-e. Thermal Mass Gas Flow Meter and Temperature Transmitter (Insertion).

a = Model 645S or TM100.

b = Probe 04I, 05I, 06I, 07I, 08I, 09I, 10I, 11I, 12I, 13I, 14I, 15I, 16I, 17I, 18I, 19I, 20I, 21I, 22I, 23I, 24I, 25I, 26I, 27I, 28I, 29I, 30I, 31I, 32I, 33I, 34I, 35I, 36I, 15R, 18R, 24R, 30R or 36R.

- c = Sensor material SH, SJ, SL or BLANK.
- d = Display D0 or DD.
- e = Output BH, P1 or RS.

a-b-c-d-e. Thermal Mass Gas Flow Meter and Temperature Transmitter (Inline).

a = Model 745S or TM100.

b = Flow body 075F, 10F, 15F, 20F, 25F, 30F, 40F, 60F, 125F, 10FC, 15FC, 20FC, 25FC, 30FC, 40FC, 60FC, 125FC, 075P, 10P, 15P, 20P, 25P, 30P, 40P, 125P, 10PC, 15PC, 20PC, 25PC, 30PC, 40PC or 125PC.

- c = Sensor material SH or BLANK.
- d = Display D0 or DD.
- e = Output BH, P1 or RS.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.

2. Refer to the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the equipment enclosure.