

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 19.0009X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 5	Issue 4 (2024-02-22) Issue 3 (2021-02-25)
Date of Issue:	2024-09-25		Issue 2 (2020-05-27) Issue 1 (2019-11-13)
Applicant:	Entegris, Inc. 101 Peavey Rd Chaska, MN 55318 United States of America		Issue 0 (2019-06-20)
Equipment:	Pressure Transducers (Models: 4100, 4210)		
Optional accessory:			
Type of Protection:	Intrinsic Safety 'ic'		
Marking:	Ex ic IIC T5 Gc		
	+10C ≤ Tamb ≤ +65°C		
	IECEX ETL 19.0009X		
Approved for issue of Certification Body:	n behalf of the IECEx	Todd L. Relyea	
Position:		Certification Officer	
Signature: (for printed version)			
Date:			
(IOF PRINTED VERSION)			
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Certificate issued	by:		
Intertek 3933 US Route 1	1 South		intertek

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

TM	IECEx Certificate of Conformity		
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Manufacturer:	Entegris, Inc. 101 Peavey Rd Chaska, MN 55318 United States of America		
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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" Edition:6.0

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:

US/ETL/ExTR19.0009/00 US/ETL/ExTR19.0009/04 US/ETL/ExTR19.0009/01 US/ETL/ExTR19.0009/05 US/ETL/ExTR19.0009/02

Quality Assessment Report:

US/ETL/QAR19.0003/04



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The product covered by this report is a family of Pressure Transducers. These pressure transducers are designed for use in high-purity application in the semiconductor industry. These products feature no moving parts and no filled cavities, which reduces the possibility of a contaminated process.

There are two models of pressure transducers, 4100 and 4210.

Pressure transducers for 0-5VDC output, for 0-10VDC output, and for 4-20mA output have the same electronics respectively according to their outputs.

Model 4100, Single-port - Variants (0-5VDC or 0-10VDC output)

Model 4210, Flow-through - Variants (0-5VDC or 0-10VDC output)

Model 4100, Single-port (4-20mA output)

Model 4210, Flow-through (4-20mA output)

SPECIFIC CONDITIONS OF USE: YES as shown below:

External non-metallic materials pose a potential electrostatic charging hazard. Refer to the manufacturer's instruction manual for details on the mitigation of electrostatic charging.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Added alternate gasket

• IP54 testing was performed using the new gasket as it is relied upon for ingress protection

Change to labels

• Changed "UL 12.12.01" to "UL 121201" on all labels

Added Drawing No. EX-CONTROLLED-PT at Rev Level F

Added Drawing No. 2422-VAR at Rev Level K

Added Drawing No. 2435-ASSY at Rev Level N

Added Drawing No. 01-1027289 at Rev Level K

Annex:

Annex for IECEx Certificate of Conformity - Entegris G105837056.pdf



Annex to IECEx Certificate of Conformity

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Technical Documents			
Title: Drawing No.:		Rev. Level :	Date:
*DWG, SCHEDULE, Ex ic IIC T5 Gc, IECEX, PRESSURE TRANSDUCER	EX-CONTROLLED-PT	F	06/17/2024
ASSEMBLY, PRESSURE TRANSDUCER, SINGLE PORT	4100	L	10/20/2023
ASSEMBLY, PRESSURE TRANSDUCER, FLOW THRU	4210	К	10/20/2023
CIRCUIT CARD ASSEMBLY PRESSURE AMPLIFIER, VOLTAGE	2422-VAR	J	03/08/2022
*CIRCUIT CARD ASSEMBLY PRESSURE AMPLIFIER, VOLTAGE	2422-VAR	К	06/17/2024
0-5/0-10VDC VOLTAGE PRESSURE SENSOR AMPLIFIER SCHEMATIC	2421_SCH	С	06/26/2008
PCA G0 SENSOR BOARD 0-5V - BOM	2422-001	J	03/13/2023
PCA G0 SENSOR BOARD 0-10V - BOM	2422-002	J	03/13/2023
*CIRCUIT BOARD ASSEMBLY, PRESSURE AMPLIFIER, CURRENT	2435_ASSY	N	06/17/2024
4-20mA PRESSURE AMPLIFIER SCHEMATIC	2434_SCH	С	05/04/2007
G0 SENSOR BOARD (4-20ma) - BOM	2435_BOM	К	07/06/2017
*USER GUIDE	01-1027289	К	06/2024

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



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IECEx Certified Components on Which Conformance Depends					
Item	Description	Manufacturer	Туре	Certificate No. / Standards*	Coding / Ratings
1	None				

Required Manufacturer Routine Testing			
Test	Title/Description of Test	Standard and Clause	
1	None		



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SFT-IECEx-OP-19f (26 October 2018)