



# 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](http://www.iecex.com)

Certificate No.: **IECEX SIR 21.0009X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2021-06-22

Applicant: **Viatran Corporation**  
199 Fire Tower Drive  
Tonawanda, NY, 14150  
**United States of America**

Equipment: **571 Pressure Transducer**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T5 Ga  
Ex ia IIC T4 Ga  
T4: -20°C <Ta< 80°C  
T5: -20°C <Ta< 40°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Neil Jones**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. 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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**CSA Group Testing UK Ltd**  
**Unit 6, Hawarden Industrial Park**  
**Hawarden, Deeside CH5 3US**  
**United Kingdom**





# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 21.0009X**

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Date of issue: 2021-06-22

Issue No: 0

Manufacturer: **Viatran Corporation**  
199 Fire Tower Drive  
Tonawanda, NY, 14150  
**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 60079-11:2011** 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 Report:

[GB/CSAE/ExTR21.0010/00](#)

Quality Assessment Report:

[NO/PRE/QAR15.0012/04](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX SIR 21.0009X**

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Date of issue: 2021-06-22

Issue No: 0

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The 571 Series Pressure Transducer is a differential pressure transmitter rated for up to 100,000 psi using strain gage (Wheatstone bridge) and electronics, which provide a 4-20mA signal output proportional to the pressure of the gas or fluid. It is housed in stainless steel welded construction enclosure with epoxy sealed 1/2 NPT male wiring nipple and pressure capsule assembly for process connection. It is rated T4 in ambient of 80°C, and T5 at 40°C ambient.

Refer to Annex for additional information.

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to Annex.

**Annex:**

[IECEX SIR 21.0009X Annexe Issue 0.pdf](#)

Annexe to: IECEx SIR 21.0009X Issue 0

Applicant: Viatran Corporation

Apparatus: 571 Pressure Transducer



## Equipment

The 571 Series Pressure Transducer is a differential pressure transmitter rated for up to 100,000 psi using strain gage (Wheatstone bridge) and electronics, which provide a 4-20mA signal output proportional to the pressure of the gas or fluid. It is housed in stainless steel welded construction enclosure with epoxy sealed 1/2 NPT male wiring nipple and pressure capsule assembly for process connection. It is rated T4 in ambient of 80°C, and T5 at 40°C ambient.

The electronics consist of three main boards: compensation, signal conditioning, and RFI Cap boards. The RFI Cap board and compensation boards are within the all-welded, hermetically sealed enclosure.

The equipment is to be used only with an IS Shunt Diode Barrier, approved for the Hazardous Location.

### Entity Parameters

Ui=28V

Ii=100mA

Pi<1W

For 100 m integral wire (571 a bb c CL100):

Li=101.2uH

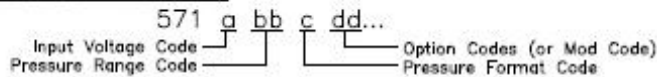
Ci=34nF

For < 1 m integral wire (571 a bb c CL1):

Li=1.2uH

Ci=14nF

## II. PART NUMBER FORMAT:



The following includes the approved part number format and all available options.

### (a) Input Voltage

5 = 24V DC (12 to 28)

### (bb) Pressure Ranges

Code Range (Minimum diaphragm thickness) in inches [MM] for Standard Wetted Material

PSI:

AM 0-100 (.0100) [.254]	AY 0-1000 (.0428) [1.087]	BM 0-10K (.1352) [3.434]	BW 0-50K (.0770) [1.956]
AN 0-150 (.0100) [.254]	AZ 0-1500 (.0525) [1.333]	BP 0-15K (.1655) [4.204]	BZ 0-60K (.0820) [2.083]
AP 0-200 (.0165) [.419]	BA 0-2000 (.0606) [1.539]	BQ 0-20K (.0360) [.914]	EC 0-75K (.0940) [2.388]
AR 0-300 (.0178) [.452]	BC 0-3000 (.0742) [1.885]	BR 0-25K (.0420) [1.067]	
AU 0-500 (.0227) [.577]	BF 0-5000 (.0954) [2.423]	BS 0-30K (.0520) [1.321]	
AW 0-750 (.0371) [.943]	BH 0-7500 (.1171) [2.974]	BU 0-40K (.0640) [1.626]	

Bar:

FG 0-4 (.0100) [.254]	FK 0-16 (.0178) [.452]	FP 0-60 (.0428) [1.087]	FU 0-250 (.0954) [2.388]
FH 0-6 (.0100) [.254]	FL 0-25 (.0227) [.577]	FQ 0-100 (.0525) [1.333]	FW 0-400 (.1171) [2.974]
FI 0-10 (.0100) [.254]	FM 0-35 (.0227) [.577]	FR 0-130 (.0606) [1.539]	FX 0-600 (.1352) [3.434]
FJ 0-13 (.0165) [.419]	FN 0-40 (.0371) [.943]	FT 0-160 (.0742) [1.885]	FZ 0-1000 (.1655) [4.204]

### (c) Pressure Format:

A = Absolute    S = Sealed Gage    G = Gage    V = Vacuum (See agency marking)

Annexe to: IECEx SIR 21.0009X Issue 0

Applicant: Viatran Corporation

Apparatus: 571 Pressure Transducer



(dd) Option Codes:

Any combination of option codes can be used unless stated otherwise. These may be listed individually or as a mod code. If there is a mod. code, options will be listed on that document

Alternate Electrical Connections:

B(A-Z), C(A-Z), Z(A-Z) alternate electrical connections approved [Class I, DIV I and/or Zone 0 only] provided the following is met (not applicable to NZ, TJ, TK or ME) ZU & ZL can be used with NG, ZU can be used with NY:

1. Standard uses the following RFI cap electronics (i.e. no other inductors or capacitors):  
PCBD assy 643538 with 050065 header and (4) 15C0007196 RFI pins
2. A minimum spacing of 3mm between all uninsulated parts and enclosure
3. Alternate RFI assembly number is 2 digit connection code followed by 5245

Alternate Ports:

All alternate pressure ports [Option codes Y(A-Z), W(A-Z), S(A-Z), V(A-Z)] are approved provided the following conditions are met:

1. Typical sensors are called out in the pressure capsule assemblies listed on page 1.
2. The pressure cap minimum wall thickness is not less than that depicted in pressure range table in Section II (bb)
3. PED Category I – Parts listed on FR0165  
PED Category III – Parts listed on FR0193

Alternate Electrical Connection Wiring: (A-Z)(A-Z)(A-Z) at end of part number.

To designate wiring other than standard as noted in Table 1.0. Each 3-digits code combination represents a unique wiring configuration

Performance Options:

- |  |  |
|--|--|
| CL Extra Lead Length   | MD FM Suitable for/IS                  |
| DF Bleed Port (10K PSI Max)  | ME CSA Explosion Proof Label           |
| DG Improved Temperature Compensation<br>[to: <0.5%100°F for Zero/Span] | MR Modified Electrical Damping (Fixed) |
| DK Special Calibration Shunt _____%                                    | ND Submersion Test                     |
| DP Submersible Housing   | NG ATEX Flameproof Label               |
| DQ Cleaning For Oxygen Service   | NH Customer Specified Identification   |
| DZ Non-Interactive Control Module                                      | NJ CE Label                            |
| EA Special Calibration   | NK ATEX IS Label                       |
|  | NSR Non Standard Range                 |
|  | NX CSA Intrinsically Safe Label        |
|  | NY FM Explosion Proof Label            |
|  | NZ FM Non-Incendive Label              |
- Exotic Metals, Wetted Parts  
QA Stainless Steel 316L  
QB Inconel X-750  
QC Hastelloy C-276  
QJ 17-4PH NACE  
QL VASCO MAX C-250  
QK INCONEL 718

- TA Assembly Of Transmitter To Conduit Connection Box  
TB Flame Arrestor  
TF FM Intrinsically Safe Label  
TJ CSA Div/Zone 2 Label  
TK ATEX Type n Label  
TW EAC Ex Label  
ZU Direct Coupled Cable

## Specific Conditions Of Use

1. The equipment must only be connected to intrinsically safe equipment certified as an associated apparatus for installation in the intended hazardous location per the installation drawing.