

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 08ATEX0090 X** Issue Number: **3**

(4) Product: **Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP**

(5) Manufacturer: **Rosemount Inc.**

(6) Address: **8200 Market Boulevard, Chanhassen, MN 55317, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR07.0072/02.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013

EN 60079-1 : 2014

EN 60079-26 : 2015

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 1/2 G Ex db IIC T6...T4 Ga/Gb

Date of certification: 27 July 2016

DEKRA Certification B.V.

R. Schuller
Certification Manager

Page 1/2



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 08ATEX0090 X**

Issue No. **3**

(15) **Description**

Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP, are microprocessor based transmitters, used to convert the measured process pressure into digital or analog signals.

For details on the nomenclature, thermal data and electrical data see Annex 1 to this certificate.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR07.0072/02.

(17) **Specific conditions of use**

This device contains a thin wall diaphragm less than 1 mm thickness that forms a boundary between Category 1 (process connection) and Category 2 (all other parts of the equipment). The model code and datasheet are to be consulted for details of the diaphragm material. Installation, maintenance and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

Flameproof joints are not intended for repair.

Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces, and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR07.0072/02.

(20) **Certificate history**

Issue 1 - 211656200	Initial certificate
Issue 2 - 212832600	Addition of Models 2051CFA, 2051CFC and 2051CFP
Issue 3 - 215971700	Update to latest standard editions, extend ambient range to -60°C, addition of RTD temperature options for Models 2051CFA, 2051CFC and 2051CFP

Annex 1 to IECEx Report NL/KEM/ExTR07.0072/02
Annex 1 to Certificate of Conformity IECEx KEM 08.0024X, issue 3
Annex 1 to EU Type Examination Certificate KEMA 08ATEX0090 X, issue 3

Description

Transmitter Model 2051, Type 2051C, 2051L, 2051T, 2051CFA, 2051CFC and 2051CFP, are microprocessor based transmitters, used to convert the measured process pressure into digital or analog signals.

Type designation

2051 **C** ...
I II variants

Designation	Explanation	Value	Explanation
I	Model	2051	Transmitter
II	Type	C T L CFA CFC CFP	Coplanar Inline Liquid Level Annubar Flowmeter Compact Flowmeter Integral Oriface Flowmeter

Variants

Static Pressure Ranges	1,2,3,4,5	689 bar maximum pressure
Signal Output	A F W M	4-20 mA w/ HART Foundation fieldbus Profibus PA Low Power 1-5 V Hart
Isolating diaphragm material	2 3 5	316L SST Alloy C-276 Tantalum
Ex d housing material and entries	A B E F J K	Aluminum ½ NPT Aluminum M20x1.5 Low Copper Aluminum ½ NPT Low Copper Aluminum M20x1.5 SST ½ NPT SST M20x1.5
Display and Interface Options	- M4 M5	No Display LCD Display with Operator interface LCD Display
Temperature option For Models 2051CFA, 2051CFC and 2051CFP only.	0 T R	No temperature option Integral RTD Remote thermowell and RTD
Conduit Electrical Connector	Custom	Not in scope of this certificate
Wireless Options	Custom	Not in scope of this certificate
Non-standard paint	Custom	Condition as listed in the certificate applies

Note: Other variants may appear in the Type designation, but are not relevant for this certificate.

Annex 1 to IECEx Report NL/KEM/ExTR07.0072/02

Annex 1 to Certificate of Conformity IECEx KEM 08.0024X, issue 3

Annex 1 to EU Type Examination Certificate KEMA 08ATEX0090 X, issue 3

Thermal data

The relation between process connection temperature, ambient temperature and temperature class is as follows:

Process connection temperature range [°C]	Ambient temperature range [°C]	Temperature class
-60 °C to +70 °C	-60 °C to +70 °C	T6
-60 °C to +80 °C	-60 °C to +80 °C	T5
-60 °C to +120 °C	-60 °C to +80 °C	T4

Electrical data

Power supply 9 – 28 Vdc, 9 – 32 Vdc or 10.5 – 42.4 Vdc

Output 4 – 20 mA with digital HART, a fieldbus signal or a low power 1 – 5 Vdc signal