

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: **DEKRA 23ATEX0085X** Issue Number: **0**

(4) Product: **Pressure Transmitter, ProcessX Type FK* series**

(5) Manufacturer: **REGULATEURS GEORGIN**

(6) Address: **14-16 rue Pierre Semard, 92320 CHATILLON, France**

(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 mentioned in item (16).

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(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 GD

| | |
|---|--------------------------------|
| Ex ia IIC T4 Ga | (Ta : -40 °C to +60 °C) |
| Ex ia IIC T5 Ga | (Ta : -40 °C to +50 °C) |
| Ex ia IIIC T₂₀₀ 135 °C Da | (Ta : -40 °C to +60 °C) |
| Ex ia IIIC T₂₀₀ 100 °C Da | (Ta : -40 °C to +50 °C) |

Date of certification: 3 Februari 2025

DEKRA Certification B.V.

R. Schuller
Certification Manager



Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 23ATEX0085X** Issue No. 0

(15) **Description**

Pressure Transmitter, ProcessX Type FK* series is used to measure process pressure and convert the pressure into a 4-20 mA output signal, which may include digital communication signals.

There are several sensor types, and there are two types of detection circuits depend on the sensor type.

An LCD display unit or a local configurator unit, and an arrester unit can be mounted as options.

There are two types of enclosure. One type is named "T-type", in which the terminal cover and the amplifier cover are on the same horizontal axis. The other type is named "L-type", in which the orientation of the terminal cover and the amplifier cover differ by 90 degrees.

The enclosures have two cable entries. That one entry is plugged by a stopping plug. NPT 1/2 or M20 plugs are included in the scope of this assessment.

The enclosures provide a degree of protection of IP5X in accordance with EN IEC 60079-0 and EN 60529.

Ambient temperature:

-40 °C to +60 °C for T4 and T₂₀₀ 135 °C

-40 °C to +50 °C for T5 and T₂₀₀ 100 °C

Electrical data

In type of protection intrinsic safety Ex ia IIC or IIIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 28 \text{ V}$; $I_i = 110 \text{ mA}$; $P_i = 0.77 \text{ W}$

$C_i = 26.0 \text{ nF}$ (with Arrester Board), or 14.9 nF (without Arrester Board)

$L_i = 0.181 \text{ mH}$

Type designation

See Annex 1 to test report mentioned in item (16).

Installation instructions

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

(16) **Report Number**

NL/DEK/ExTR23.0062/00

(17) **Specific conditions of use**

- Installations for models incorporating the Arrester Board shall consider that these models do not assure electrical insulation of minimum 500Vac between the input circuitry and enclosure.
- In case of EPL Ga application, sufficient actions shall be taken to avoid, even in case of rare fault, an ignition hazard due to impact or friction.
- In case of painted aluminium alloy enclosure and covers, the apparatus shall be installed avoiding the risk of electrostatic discharge and propagating brush discharge caused by rapid flow of dust.

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

Covered by the standards listed at item (9).

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 23ATEX0085X** Issue No. **0**

(19) **Test documentation**

As listed in test report number mentioned in item (16).