

EU-Type Examination Certificate



1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**
3. **EU-Type Examination Certificate Number: ITS12ATEX27616X Issue 1**
4. **Product:** 4 and 5 Digit Panel Mounting Indicators and Rate Totaliser
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. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificate referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

The examination and test results are recorded in confidential Intertek Reports Ref G100802154B dated August 2012 and G103416968A dated March 2018.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe 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 G Ex ia IIC T5 Ga
II 1 D Ex ia IIIC T80°C Da IP20

-40°C ≤ Ta ≤ +70°C

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A M Smart
Certification Officer
24th April 2018



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13. Description of Equipment or Protective System

The 4 and 5 Digit Panel Mounting Indicators and Rate Totaliser are panel mounted loop powered equipment designed to display a measured variable in meaningful engineering units within the hazardous area. The zero and span of the display are independently adjustable allowing the instruments to be calibrated to display a linear variable represented by the 4/20 mA signal.

A root extractor and an adjustable sixteen segment lineariser enable the indicator to display flow and non-linear variables such as tank level in engineering units.

The 4 and 5 Digit Panel Mounting Indicators and Rate Totaliser may be one of the following;

GeXi07 and GeXi08 4 Digit Indicators
GeXi27 and GeXi28 5 Digit Indicators
GeXi58 Rate Totaliser

The 4 and 5 Digit Panel Mounting Indicators and Rate Totaliser may optionally be fitted with Alarm board and may additionally be fitted with an optional Backlight board.

The 4 and 5 Digit Panel Mounting Indicator and Rate Totaliser comprise a main board, a display module, an optional Alarm board and an optional Backlight board, all housed within a plastic enclosure. The enclosure provides a degree of protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and inductance, and infallible segregation.

The maximum intrinsically safe input and output parameters at the external connections are as follows:

TB1 Terminals 1 and 3 (Loop Input); TB2 Terminal 12 and TB1 Terminal 3 (TB2 -13 and TB1 – 1 connected in series):

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 13nF$
 $L_i = 0.008mH (0.01mH)$

TB2 Terminals 12, 13 and 14 (Backlight Input):

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 13nF$
 $L_i = 0.008 mH (0.01 mH)$

TB3 Terminals RS1 and RS2:

$U_i = 30V$
 $I_i = 200mA$
 $P_i = 0.84W$
 $C_i = 13nF$
 $L_i = 0.008mH (0.01mH)$
 $C_o = 53nF$
 $L_o = 0.79mH$

$U_o = 6 V$
 $I_o = 2.5 mA$
 $P_o = 3.75 mW$

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TB4 Terminals 8 and 9; Terminals 10 and 11 (Alarm 1 and Alarm 2)

$U_i = 30V$

$L_i = 0.008mH (0.01mH)$

$I_i = 200mA$

$P_i = 0.84W$

$C_i = 24nF$

For intrinsic safety considerations, under faults conditions, the voltage, current and power at the output terminals TB1 - 1 & 3, terminals TB2 - 12 & TB1 - 3, and terminals TB4 - 8 & 9 and 10 & 11 do not exceed those specified in clause 5.7 of EN 60079-11. The equivalent capacitance and inductance are the result of R.F. suppression components directly connected across the apparatus input terminals.

14. Report Number

Intertek Reports Ref G100802154B dated August 2012 and G103416968A dated March 2018.

15. Special Conditions of Certification

(a). Specific Conditions of Safe Use

- For use in Group IIIC conductive dust atmospheres, the Indicator or Totaliser shall be mounted such that the instrument terminals have at least IP6X protection.

(b). Conditions of Manufacture

- The voltages applied to infallible transformers shall conform to the values given in Table 10 as per the requirements of EN 60079-11:2011 clause 11.2, Routine tests for infallible transformers.

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: G103416968A Issue: 1 Dated: March 2018

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
ATEX Certification & Labelling Information	CI300-65, Sheets 1 & 2	2	13.02.2018

Note: Drawings marked * are common to Certificate No. ITS12ATEX27615X

18. Details of Certificate changes Issue 1

- Re-assessments of the 4 and 5 Digit Panel Mounting Indicators to the requirements of the latest standards EN 60079-0:2012+A11:2013 and EN 60079-11:2012.
- Changes to appropriate documents to reflect the above changes.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.