



EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

EC-Type Examination Certificate Number : BAS02ATEX2071

Equipment or Protective System: A TYPE M6290 TANK GAUGE CONTROL UNIT

Manufacturer: SCIENTIFIC INSTRUMENTS INC

Address: 4400 West Tiffany Drive, Mangonia Park, West Palm Beach, Florida 33407, USA

This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

01(C)0859 dated 3 September 2002

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


EN 50014: 1997 + Amds 1 & 2 EN 50018: 2000

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

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

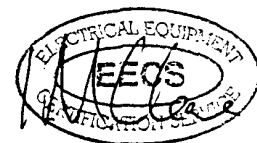
The marking of the equipment or protective system shall include the following:-

 II 2 G EEx d IIB T6 (-20°C ≤ T_a ≤ +30°C)

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0947/01/004

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
5 September 2002



13 Schedule

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15 Description of Equipment or Protective System

The Type M6290 Tank Gauge Control Unit comprises a Norcon Norris Limited Type 11695DL Enclosure to Component Certificate BAS02ATEX2067U, coded EEx d IIB. The cover is secured to the enclosure by 16 off M8 x 25mm long steel socket head cap screws of minimum Grade 8.8. The enclosure wall is fitted with a Norcon Norris Type 12721 rotary shaft assembly to Component Certificate BAS02ATEX2068U, coded EEx d IIB.

The underside of the cover is fitted with a chassis mounted switch reset actuator.

The interior of the enclosure comprises up to the following baseplate mounted components:-

- a. A transformer rated 66VA.
- b. A stepper motor.
- c. A stepper motor control unit rated 36W.
- d. A power supply rated 80W.
- e. A power conversion module rated 3W.
- f. A control module rated 12W.
- g. Two Type Z765, a Type Z788, a Type Z705 and a Type Z772 intrinsically safe isolating barriers manufactured by Pepperl & Fuchs to BAS01ATEX7005, coded [EEx ia] IIC (-20°C ≤ T_a ≤ +60°C).

Internal and external earth facilities are provided.

To obviate the risk from internal hotspots, battery, and capacitor storage associated with this arrangement the enclosure must not be opened, when an explosive gas atmosphere is present. A label is fitted to each and every enclosure which states this information.

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs.

Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC may also be used in the manner specified above.

16 Report No.

BASEEFA Certification Report No. 01(C)0859 dated 22 August 2002.

17 Special Conditions For Safe Use

None.



13 Schedule

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18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
None		

19 DRAWINGS

Number	Issue	Date	Description
025-089 Sheets 1 to 3	E	8-13-02	General Arrangement M6290 Tank Gauge Control Unit

VARIATION 0.1

Omission of the Intrinsically Safe devices listed above.

In this form the Type 6290 Tank Gauge Control Unit is recorded:-

⊕ II 2 G EEx d IIB T6 (-20°C ≤ T_a ≤ +50°C)

This certificate may only be reproduced in its entirety and without any change, schedule included.

BASEEFA List Keywords
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