



EC - TYPE EXAMINATION CERTIFICATE

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

- 3 EC - Type Examination Certificate **Baseefa02ATEX0040X**
Number :
- 4 Equipment or protective system: **MODEL 4700B OR 6700B PRESSURE TRANSMITTER**
- 5 Manufacturer : **GEMS SENSORS**
- 6 Address : **Basingstoke, Hants, RG22 4AW**
- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa (2001) Ltd. Notified body number 1180 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 No. 02(C)0035 dated
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 EN 50020: 2002 EN 50284: 1999
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 equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.
- 11 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.
- 12 The marking of the equipment or protective system shall include the following :

⊕ II 1 G EEx ia IIC T4 (-40°C < T_{amb} < 75°C)

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

Baseefa (2001) Ltd. Customer Reference No. 1149

Project File No. 02/0035

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR

DIRECTOR

On behalf of
Baseefa (2001) Ltd.

Baseefa (2001) Ltd.

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Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ



Schedule

15 Description of Equipment or Protective System

The Model 4700B or 6700B Pressure Transmitter is designed to convert pressure signals into a 4-20mA electrical signal.

It comprises a pressure sensing diaphragm with strain gauge elements, connected to electronic circuits on three PCB's, all contained in a steel, Inconel, or Hastelloy enclosure providing a degree of protection in excess of IP20. Connections are either by means of an internal connector and detachable cover plate, or by the use of an integral cable up to 150m in length.

Input Parameters

$U_i = 28V$, $I_i = 100mA$, $P_i = 0.92W$, $C_i = 44nF$, $L_i = 220\mu H$

16 Report No.

02(C)0035

17 Special Conditions for Safe Use

1. The apparatus is not capable of withstanding the 500V insulation test required by clause 6.4.12 of EN 50020: 2002. This must be taken into account on any installation.
2. The screen of the integral cable (when fitted) is connected internally to the frame of the apparatus. This must be taken into account on any installation.
3. The C_i quoted for this apparatus does not include any allowance for the integral cable. Therefore the length of this cable must be included in any assessment of total permitted cable length for a particular installation.

18 Essential Health and Safety Requirements

None which are not covered by the standards listed at item 9

19 Drawings and Documents

Number	Issue	Date	Description
562220 Sheet 1	1	8-10-02	General Assembly 4700B
562220 Sheet 2	1	8-10-02	General Assembly 6700B
562195	A	23.5.02	Main Circuit Diagram (4-20mA)
562205	B	8-10-02	RFI Board Circuit Diagram
562190	A	23.5.02	Main Board Component Layout
562192A Top Copper	A	24.4.02	Main Board Top Artwork
562192A Bottom Copper	A	24.4.02	Main Board Bottom Artwork
562200	B	8-10-02	RFI Board Component Layout
562202B Top Copper	B	4-9-02	RFI Board Top Artwork
562202B Bottom Copper	B	4-9-02	RFI Board Bottom Artwork



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa02ATEX0040X/2**

4 Equipment or Protective System: **Model 4700B or 6700B Pressure Transmitter**

5 Manufacturer: **Gems Sensors**

6 Address: **Basingstoke, Hants, RG22 4AW**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0040X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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

Baseefa (2001) Ltd. Customer Reference No. 1149

Project File No. 04/0274

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Schedule

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Certificate Number Baseefa02ATEX0040X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit minor changes to drawings.

16 Report Number

None

17 Special Conditions for Safe Use

None additional to those listed previously.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
562190	B	30.3.04	Main Board Component Layout
562195	C	30.3.04	Main Circuit Diagram (4-20mA)