



## EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS98ATEX7206U**

Component: **8220-DI-IS, 16 CHANNEL IS DI, SWITCH/PROXIMITY DETECTOR**

Manufacturer: **MEASUREMENT TECHNOLOGY LTD**

Address: **Luton, Bedfordshire, LU1 3JJ**

This Component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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°

**98(C)0557 dated 11 December 1998**

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

**EN50014: 1997**

**EN50020: 1994**

The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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

The marking of the component shall include the following:-

**II [1] G [EEEx ia] IIC (-40°C ≤ Ta ≤ +70°C)**

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

File No: **EECS 0703/02/264**

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.



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom  
Tel: 01298 28000 Fax: 01298 28244

**I M CLEARE**  
DIRECTOR  
11 December 1998



## Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U

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### Description of Component

The 8220-DI-IS, 16 Channel IS DI, switch/proximity detector is designed to restrict the transfer of energy from unspecified safe area apparatus to sixteen galvanically isolated intrinsically safe circuits by the limitation of voltage and current. The module consists of electronic components on three printed circuit boards mounted within a moulded plastic enclosure. The apparatus is designed to provide output voltage and current limitation for connection to an Intrinsically Safe circuit when supplied from a galvanically isolated, voltage clamped source with triplicated crowbar protection e.g. 8920-PS-DC I.S. System Power Supply via a carrier unit.

Each module has sixteen separate channels which are all referenced to a common electrical connection but will be considered as separate intrinsically safe circuits. Each channel is designed to receive inputs from simple apparatus which may be situated within a hazardous area and pass these signals to the safe area on the railbus data lines. The sixteen channels are separated into two groups of eight with common returns within each group.

Digital data is passed between the Hazardous Area and the Safe Area equipment, via power blocking circuitry within the module, to a data interface unit such as the Rail Bus Isolator Unit Model 8922-RB-IS.

Each data line, address line and the safe area supply to the opto-couplers connecting the Module to the Railbus Isolator is provided with a single blocking diode. These provide protection against the thermal effects of excessive power under normal operating conditions on the railbus data lines which interconnect the modules.

The safe area connections of the 8220-DI-IS, 16 Channel IS DI, switch/proximity detector are made via a certified module carrier such as an 8720-CA-04 4-Module carrier or an 8727-CA-08 8-Module carrier and the hazardous area connections are made via certified IS field terminals such as the 8624-FT-IS, IS Field Terminals 8 Channel DI.

Connector CON2, Pins 1, 3-5, 10-12, 15 & 16

$U_m = 18V$  d.c.

The maximum prospective input current must be limited to less than 85A.

Connector CON2, Pins 13, 14, 17-22, 31, 33 & 34

$U_m = 18V$  d.c.

The maximum prospective input power must be limited to less than 2.5W.



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## Schedule

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### EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U

#### Channels 1 to 16 on Connectors CON5 and CON6 (Each Channel)

$$U_o = 10.5V$$

$$I_o = 14mA$$

$$P_o = 0.04W$$

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the load connected to the output terminals of a single channel must not exceed the following values:

GROUP	CAPACITANCE in $\mu F$	INDUCTANCE in mH	OR	L/R RATIO in $\mu H/ohm$
IIC	2.41	175		983
IIB	16.8	680		1333
IIA	75.0	1000		1333

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#### Report No

98(C)0557

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#### Schedule of Limitations

1. Each output channel must be considered as a separate intrinsically safe circuit which must be segregated from all other circuits by the requirements of Table 4 of EN50 020.
2. This module must be mounted with suitable connection facilities such that the output connectors are provided with a degree of protection of at least IP20.
3. Plugs and sockets for external connections must be designed such that incorrect connections or interchangeability with in-appropriate field connections is prevented.
4. This module must be segregated from any other Non-IS or IS circuits, by the requirements of Table 4 of EN50 020: 1994.

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#### Essential Health and Safety Requirements

There are no additional requirements other than those referred to in the standard.

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#### DRAWINGS

Number	Sheet	Issue	Date	Description
TC8220-101/2	1	2	10.98	Block Diagram
TC8220-101/2	2	2	10.98	Detector Block A



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## Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U

Number	Sheet	Issue	Date	Description
TC8220-101/2	3	2	10.98	Channels 1 to 4
TC8220-101/2	4	2	10.98	Channels 5 to 8
TC8220-101/2	5	2	10.98	Field - Field Interface
TC8220-101/2	6	2	10.98	Detector Block B
TC8220-101/2	7	2	10.98	Channels 9 to 12
TC8220-101/2	8	2	10.98	Channels 13 to 16
TC8220-101/2	9	2	10.98	Field Interface A
TC8220-101/2	10	2	10.98	Field Interface B
TC8220-101/2	11	2	10.98	Railbus System
TC8220-101/2	12	2	10.98	Railbus System
TC8220-101/2	13	2	10.98	Railbus System
TC8220-101/2	14	2	10.98	LED Block A
TC8220-101/2	15	2	10.98	LED Block B
TC8220-101/2	16	2	10.98	Field Power Supply
TC8220-101/2	17	2	10.98	Field Power Supply
CI8200	1	3	12.98	General Assembly
CI8220-057	1	1	12.98	Segregation PCB
CI8220	1	1	08.98	Parts List
CI8220	2	2	12.98	Parts List
CI8220-PCB730	1	1	10.98	PCB730 Track Layout
CI8220-PCB731	1	1	10.98	PCB731 Track Layout
AD8220-103/3	1	3	10.98	PCB730 Assembly
AD8220-103/3	2	3	10.98	PCB730 Assembly
AD8220-103/3	3	3	10.98	PCB730 Assembly
AD8220-106/3	1	3	10.98	PCB731 Assembly
AD8220-106/3	2	3	10.98	PCB731 Assembly
CI8220-1	1	3	12.98	Certification Label
CI5000-8 *	1	1	11.97	TFR310 Transformer
CI5000-8 *	2	1	11.97	TFR310 Transformer

Drawings marked \* are held on BASEEFA Certificate Ex 98D2009



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## Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U

### VARIATION 0.1

To permit the 8220-DI-IS, 16 Channel IS DI, switch/proximity detector to be renamed the 8220-DI-IS, 8 Channel IS DI, switch/proximity detector. This version is identical in all respects to the 16 Channel version but for operational reasons uses only 8 channels.

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

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BASEEFA List Keywords  
2ISOLBAR



1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**  
**Intended for use in Potentially explosive atmospheres**  
**Directive 94/9/EC**

3 Supplementary EC-Type Examination Certificate Number: **BAS98ATEX7206U/1**

4 Component: **8220-DI-IS, 16 CHANNEL IS DI SWITCH/PROXIMITOR DETECTOR**

5 Manufacturer: **MEASUREMENT TECHNOLOGY LTD**

6 Address: **Luton, Bedfordshire, LU1 3JJ**

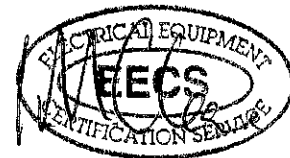
7 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX7206U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

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File No: EECS 0703/02/264

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**Electrical Equipment Certification Service**  
Health and Safety Executive  
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**I M CLEARE**  
**DIRECTOR**  
**27 July 1999**



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### Schedule

14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U/1

#### Description of the Variation to the Component

##### VARIATION 1.1

To permit minor changes to the circuit that do not affect the original Intrinsic Safety Assessment.

#### Report No.

None

#### SCHEDULE OF LIMITATIONS

As original certificate.

#### Essential Health and Safety Requirements

See original certificate.

#### DRAWINGS

Number	Sheet	Issue	Date	Description
TC8220-101/3	1 to 17	3	7.99	Circuit Diagram
AD8220-103/4	1 to 3	4	7.99	Component Layout

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1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**  
3 **Intended for use in Potentially explosive atmospheres**  
4 **Directive 94/9/EC**

5 Supplementary EC-Type Examination Certificate Number: **BAS98ATEX7206U/2**

6 Component: **8220-DI-IS, 16-CHANNEL IS DI, SWITCH/PROXIMITY DETECTOR**

7 Manufacturer: **MEASUREMENT TECHNOLOGY LIMITED**

8 Address: **Power Court, Luton, Bedfordshire, LU1 3JJ**

9 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX7206U to apply to components 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.

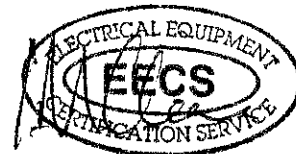
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Health and Safety Executive  
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Internet: www.baseefa.com e-mail: baseefa.info.eecs@hsl.gov.uk



I M CLEARE  
DIRECTOR  
19 February 2001





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**Schedule**

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U/2**

**Description of the Variation to the Component**

**VARIATION 2.1**

To permit minor changes to the certification label.

**Report No.**

None

**Schedule of Limitations**

See original certificate.

**Essential Health and Safety Requirements**

See original certificate.

**DRAWINGS**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
CI8220-1	-	4	10.00	8220-DI-IS Certification Label

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



1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**  
**Intended for use in Potentially explosive atmospheres**  
**Directive 94/9/EC**

3 Supplementary EC-Type Examination Certificate Number: **BAS98ATEX7206U/3**

4 Component: **8220-DI-IS, 16-CHANNEL IS DI, SWITCH/PROXIMITY DETECTOR**

5 Manufacturer: **MEASUREMENT TECHNOLOGY LIMITED**

6 Address: **Power Court, Luton, Bedfordshire, LU1 3JJ**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX7206U to apply to components 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 and without any change, schedule included.

File No: EECS 0703/02/264

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I M CLEARE  
DIRECTOR  
25 January 2002



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**Schedule**

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX7206U/3**

**Description of the Variation to the Component**

**VARIATION 3.1**

To permit the change in value of non-critical resistors R177 to R180 from 2k2 to 3k3. Also to permit the detailed production circuit diagrams TC8220-101/3 Sheets 1 to 17 to be replaced by certification circuit diagrams CI8220-5 Sheet 1-17, and the introduction of a revised segregation board outline.

These changes do not affect the original Intrinsic Safety Assessment.

**Report No.**

None.

**Schedule of Limitations**

As original certificate.

**Essential Health and Safety Requirements**

See original certificate.

**DRAWINGS**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
CI8220-5	1 to 17	1	7.01	Certification Circuit Diagram
CI8220-057	1	2	9.01	Segregation p.c.b.

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1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**  
3 **Intended for use in Potentially explosive atmospheres**  
4 **Directive 94/9/EC**

5 Supplementary EC-Type Examination Certificate Number: See Schedule

6 Component: See Schedule

7 Manufacturer: **MEASUREMENT TECHNOLOGY LIMITED**

8 Address: **Luton, Bedfordshire, LU1 3JJ**

9 This supplementary certificate extends the EC-Type Examination Certificates listed in the Schedule to apply to components designed and constructed in accordance with the specifications set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

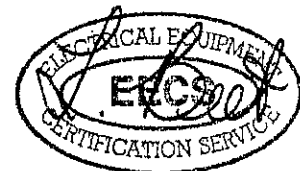
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File No: See Schedule

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pp I M CLEARE  
DIRECTOR  
21 February 2002



13 Schedule

14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

Description of the Variation to the Component

VARIATION See Schedule

To permit the option to use a polyester resin based ink for marking the certification details on the units as an alternative to the acrylic based ink originally specified. The original assessment is not affected by this change.

<u>Certificate No.</u>	<u>Supplement No.</u>	<u>Variation No.</u>	<u>Component Title</u>	<u>File No.</u>
BAS98ATEX7204U	/7	7.1	8215-DO-IS	EECS 0703/02/262
BAS98ATEX7205U	/6	6.1	8204-AO-IS	EECS 0703/02/263
BAS98ATEX7206U	/4	4.1	8220-DI-IS	EECS 0703/02/264
BAS98ATEX7207U	/5	5.1	8201-HI-IS	EECS 0703/02/265
BAS98ATEX7208U	/4	4.1	8922-RB-IS	EECS 0703/02/266
BAS98ATEX7209U	/5	5.1	8920-PS-DC	EECS 0703/02/267
BAS99ATEX7316U	/5	5.1	8205-TI-IS 8206-TI-IS	EECS 0703/02/277
BAS00ATEX7202U	/2	2.1	8223-PI-IS	EECS 0703/02/294
BAS01ATEX7185U	/2	2.1	8202-HO-IS	EECS 0703/02/297

Report No.

None.

Schedule of Limitations

See original certificates.

Essential Health and Safety Requirements

See original certificates.

DRAWING

Number	Issue	Date	Description
*CI8000-5	1	01.02	Label printing inks

\*held on BASEEFA Certificate No BAS98ATEX7209U on file No. EECS 0703/02/267

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



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**  
**Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **BAS98ATEX7206U/5**

4 Component: **8220-DI-IS, 16 Channel IS DI, Switch / Proximity Detector**

5 Manufacturer: **Measurement Technology Limited**

6 Address: **Power Court, Luton, Bedfordshire, LU1 3JJ**

7 This supplementary certificate extends EC - Type Examination Certificate No. BAS98ATEX7206U to apply to components 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. **0703**

Project File No. **05/0676**

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.

**Baseefa**

Rockhead Business Park, Staden Lane,  
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e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

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Certificate Number BAS98ATEX7206U/5

15 Description of the variation to the Component

### Variation 5.1

The intrinsically safe output may be connected to apparatus used in the presence of combustible dust and certified 'D'. Therefore in accordance with ExNB Interpretation/Clarification Sheet No. 99/11/075/CS, the apparatus may be additionally marked 'D'.

⊕ II (1)GD [EEx ia] IIC (-40°C ≤ T<sub>a</sub> ≤ +70°C)

16 Report Number

None.

17 Schedule of Limitations

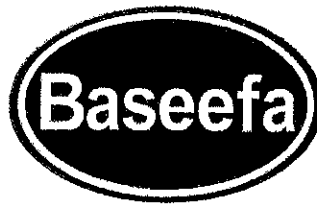
None additional to those listed previously

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	Sheet	Issue	Date	Description
CI8220-1	1	5	5.05	8220-DI-IS Certification Label Details



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**  
**Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate      See Schedule  
Number:

4 Component:      See Schedule

5 Manufacturer:      GE Fanuc Intelligent Platforms

6 Address:      Butterfield, Luton, LU2 8DL

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to components designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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

Baseefa Customer Reference No. 6198

Project File No. 09/0581

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

**Baseefa**

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e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa





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### Schedule

#### Description of the variation to the Component

Certificate No.	Supplement No.	Component Type
BAS98ATEX7204U	9	8215-DO-IS, 4 Channel IS DO Solenoid Driver
BAS98ATEX7205U	9	8204-AO-IS, 8 Channel IS AO, 4-20 mA
BAS98ATEX7206U	6	8220-DI-IS, 16 Channel IS DI Switch / Proximity Detector
BAS98ATEX7207U	8	8201-HI-IS, 8 Channel IS AI, 4-20 mA with HART
BAS98ATEX7208U	6	8922-RB-IS, Railbus Isolator with Railbus Isolator Carrier
BAS98ATEX7209U	8	8920-PS-DC, IS System Power Supply, d.c. Input with Module Carrier
BAS98ATEX7210U	7	87XX Module Carriers
BAS98ATEX7211U	12	862X IS Field Terminal
BAS99ATEX7316U	6	8205-TI-IS, 8 Channel IS, Thermocouple Input Module 8206-TI-IS, 8 Channel IS, RTD Input Module
BAS00ATEX7202U	5	8223-PI-IS, 2-Channel Pulse Input Module
BAS01ATEX7185U	5	8202-HO-IS, 8 Channel IS AO, 4-20 mA with HART
BAS01ATEX7346U	2	8230-AI-IS, 8 Channel IS Analogue Input Module

#### Report No.

None

#### Schedule of Limitations

See original certificates

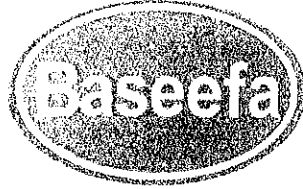
#### Essential Health and Safety Requirements

See original certificates

#### Drawings and Documents

Number	Sheet	Issue	Date	Description
CI 8200-15	1	1	07.09	Optional encapsulants and alternative address prefixes

Certificate Number  
See Schedule



Issued 27 July 2010  
Page 1 of 2

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**  
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate      See Schedule  
Number:

4 Component:      See Schedule

5 Manufacturer:      **GE Intelligent Platforms**  
(formerly GE Fanuc Intelligent Platforms)

6 Address:      **2500 Austin Drive, Charlottesville, Virginia 22911, USA**  
(formerly Butterfield, Luton, LU2 8DL)

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to components designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

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

Baseefa Customer Reference No. 6623

Project File No. 10/0571

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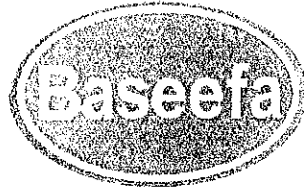
**Baseefa**

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e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

  
R S SINCLAIR 

DIRECTOR  
On behalf of  
Baseefa

Certificate Number  
See Schedule



Issued 27 July 2010  
Page 2 of 2

### Schedule

#### Description of the variation to the Component

To permit minor label and drawing changes not affecting the original assessment.

Certificate No.	Supplement No.	Component Type
BAS98ATEX7205U	10	8204-AO-IS, 8 Channel IS AO, 4-20mA
BAS98ATEX7206U	7	8220-DI-IS, 16 Channel IS DI, Switch / Proximity Detector
BAS98ATEX7208U	7	8922-RB-IS, Railbus Isolator with Railbus Isolator Carrier
BAS98ATEX7210U	8	87XX Module Carriers
BAS99ATEX7316U	7	8205-TI-IS, 8 Channel IS, Thermocouple Input Module
BAS00ATEX7202U	6	8223-PI-IS, 2-Channel Pulse Input Module
BAS01ATEX7346U	3	8230-AI-IS, 8 Channel IS Analogue Input Module

#### Report No.

None

#### Schedule of Limitations

See original certificates

#### Essential Health and Safety Requirements

See original certificates

#### Drawings and Documents

Number	Sheet	Issue	Date	Description
CI8200-10	1 to 3	3	7.10	Revised Label information for 8000 2/1 Product made by GE Intelligent Platforms – Baseefa
CI 8200-15	1 of 1	2	7.10	Optional Encapsulants and Alternative Address Prefixes

The above drawings are held with BAS98ATEX7205U.