



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 :

BAS99ATEX7316U

- Component: 8205-TI-IS, 8-CHANNEL IS, THERMOCOUPLE UNIT
- Manufacturer: MEASUREMENT TECHNOLOGY LIMITED
- Address: Power Court, 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 0600 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 No

99(C)0163 dated 20 March 2000

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

EN 50014: 1997 + Amd 1 & 2

EN 50020: 1994

- The sign "U" placed after the certificate number indicates that this certificate must not be mistaken 10 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 11 and supply of this component.
- The marking of the component shall include the following:-12

II (1) G

[EEx ia] IIC

 $(T_a = -40^{\circ}C \text{ to } \pm 70^{\circ}C)$

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

File No: EECS 0703/02/277

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







EC-TYPE EXAMINATION CERTIFICATE No. BAS99ATEX7316U

15 Description of Component

The 8205-TI-IS, 8-Channel IS, Thermocouple Input is designed to restrict the transfer of energy to eight galvanically isolated, independent, intrinsically safe circuits by the limitation of voltage and current. The module is supplied from a galvanically isolated, voltage clamped input of 18V which is provided with triplicated crowbar protection, e.g. the 8920-PS-DC, I.S. System Power Supply (PSU). Temperature 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 8922-RB-IS, Railbus Isolator (RBI).

The module consists of electronic components on three printed circuit boards mounted within a moulded plastic enclosure. Each module has eight 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 accept an input from a thermocouple, or a mV source, which may be situated within a hazardous area, and to convert it into an output for use on the railbus data lines within a safe area

The safe area connections of the 8205-TI-IS, 8-Channel IS, Thermocouple Input are made via a certified module carrier such as an 8720-CA-04 4-Module carrier or an 8729-CA-08 8-Module carrier and the hazardous area connections are made via certified IS field terminals such as the 8625-FT-IS Thermocouple Field Terminals.

Apparatus Parameters

14

The 8205-TI-IS, 8-Channel IS, Thermocouple Input is to be coded [EEx ia] IIC $(T_a = -40^{\circ}\text{C to} + 70^{\circ}\text{C})$ when:

Input Parameters
CON 2 Pins 1, 3-5, 10-12, 15 and 16. $U_m = 18V$ (from the PSU)
The maximum prospective current must be limited to 85A.

CON 2 Pins 13, 14, 17-22 and 31, 33 & 34.

 $U_m = 18V$ (from the RBI)

The maximum input power must be limited to 2.5W.

All of the data lines between the module and the Railbus Isolator are diode blocked and/or optocoupled to prevent power transfer from the module back onto the data lines.

Pins 31, 33 and 34 are connected to the common 0V(A) connection on the hazardous area side of the galvanic isolation. These connections must remain segregated from all safe area circuitry to maintain the galvanic isolation.

Both the PSU and the Railbus Isolator supplies and the Railbus data signals are referenced to a common point within the Railbus Isolator to ensure that the galvanically isolated supplies are not additive.



14

Schedule

EC-TYPE EXAMINATION CERTIFICATE No. BAS99ATEX7316U

Hazardous Area Circuits - Channels 1 to 8 on Connectors CON5 and CON6

Ch	Output pins	Output pins	Output pins	Ch	Output pins	Output pins	Output pins
1	Con 5, pin 7c	Con 5, pin 6c	Con 5, pin 5c	5	Con 6, pin 7c	Con 6, pin 6c	Con 6, pin 5c
2	Con 5, pin 3c	Con 5, pin 2c	Con 5, pin 1c	6	Con 6, pin 3c	Con 6, pin 2c	Con 6, pin 1c
3	Con 5, pin 7a	Con 5, pin 6a	Con 5, pin 5a	7	Con 6, pin 7a	Con 6, pin 6a	Con 6, pin 5a
4	Con 5, pin 3a	Con 5, pin 2a	Con 5, pin 1a	8	Con 6, pin 3a	Con 6, pin 2a	Con 6, pin 1a
[1+	Con 5, pin 1b	1-(-2.5V)	Con 5, pin 3b				
0V	Con 5, pin 4a	Con 5, pin 4b	Con 5, pin 4c	and	Con 5, pin 2b		

Channels 1, 2, 3, 4, 7 and 8 on Connectors CON5 and CON6 - Each channel wired as a separate I.S. Circuit

 $U_0 = 16.4V$

$$I_0 = 79 \text{mA}$$

$$P_0 = 0.33W$$

$$C_i = 14nF$$

$$L_{i} = 65 \, \mu H$$

Channels 5 and 6 on Connectors CON5 and CON6 - Each channel wired as a separate I.S. Circuit

 $U_o = 1V$

$$I_o = 1.1 \text{mA}$$

$$P_o = 0.3 \text{mW}$$

$$C_i = 4nF$$

$$L_i = 15 \mu H$$

Connections Con 5, pin 1b, [|1+] and Con 5, pin 3b, [|1-(-2.5V)] are used internally within the 8625-FT-IS Field Terminal for the cold junction compensation circuit and have no external connection to the hazardous area circuit.

The field outputs share a common rail between the eight channels but are galvanically isolated from the PSU and Railbus Isolator supplies and the Railbus data signals.

LOAD PARAMETERS

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

Channels 1, 2, 3, 4, 7 and 8 on Connectors CON5 and CON6 - Each channel wired as a separate I.S. Circuit

GROUP	CAPACITANCE in µF	INDUCTANCE in mH	OR	L/R RATIO in µH/ohm
IIC	0.41	5.8		62
IIB	2.49	23.8		227
IIA	9.98	49.1		480





Schedule

14

EC-TYPE EXAMINATION CERTIFICATE No. BAS99ATEX7316U

Channels 5 and 6 on Connectors CON5 and CON6 - Each channel wired as a separate I.S. Circuit

GROUP	CAPACITANCE in µF	INDUCTANCE in mH	OR	L/R RATIO in µH/ohm
IIC	100	1,000		1,100
IIB	1,000	1,000		1,100
IIA	1,000	1,000		1,100

VARIATION ONE

CHONOMONO CONTRACTOR C

To permit minor circuit changes to the 8205-TI-IS, 8-Channel IS, Thermocouple Input Module to form the 8206-TI-IS, 8-Channel IS, RTD Input Module.

The 8206 module is of identical construction to the 8205 and has eight separate channels which are all referenced to a common electrical connection within the module. In addition to this connection, all channels require a connection to a common constant current source, therefore cannot be considered as separate intrinsically safe circuits.

Each channel is designed to accept an input from an RTD which may be situated within a hazardous area, and to convert it into an output for use on the data lines on the carrier.

The EEx ia hazardous area field terminal connections are made via certified IS field terminals such as the 8626-FT-IS RTD Field Terminals, which does not meet the segregation distances between channels and which shares a common constant current supply for all the eight channels, therefore all of the channels are considered as combined as one intrinsically safe circuit.

Channels 1 to 8 on Connectors CON5 and CON6

 $U_0 = 16.4V$

 $I_0 = 217 \text{mA}$

 $P_0 = 0.9W$

 $C_i = 35nF$

 $L_i = 170 \mu H$

Connections Con 5, pin 1b, [|1+] and Con 5, pin 3b, [|1-(-2.5V)] may used within the external hazardous area circuit.

LOAD PARAMETERS

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





Schedule

14

EC-TYPE EXAMINATION CERTIFICATE No. BAS99ATEX7316U

Channels 1 to 8 on Connectors CON5 and CON6 - Total Load for all channels combined

GROUP	CAPACITANCE in µF	INDUCTANCE in mH	OR	L/R RATIO in µH/ohm
IIC	0.39	0.39		20
IIB	2.47	1.5		90
IIA	9,96	4.2		182

16 Report No.

CHONON CONTRACTOR CONT

99(C)0163

17 Schedule of Limitations

- 1. Each output channel must be considered as a separate intrinsically safe circuit. This Limitation does not apply to the 8206-TI-IS, 8 Channel IS RTD Input Module.
- 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 inappropriate field connections is prevented.
- 4. This module and the output channels must be segregated from any other Non-IS or IS circuits, by the requirements of Table 4 of EN50020: 1994.

18 Essential Health and Safety Requirements

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



DRAWINGS

13			Schedule	
14	EC-TYPE EX	KAMINATIO	N CERTIFIC.	ATE No. BAS99ATEX7316U
19 DRA	WINGS			
Number	Sheet	Issue	Date	Description
CI8205	1-13	1	10/99	Circuit Diagram
CI8205-7	1	1	11/99	Parts List - Safety Componer
CI8205-7	2	1	11/99	Parts List - Safety Componer
CI8205-8	1	1	12/99	General Assembly
CI8205-4	1	1	11/99	Component Layout pcb798
CI8205-5	1	1	11/99	Component Layout pcb799 M
CI8205-6	1	1	11/99	Component Layout pcb800 I
CI8205-1	1	1	11/99	Track Layout pcb798/2 Top
CI8205-2	1	1	11/99	Track Layout pcb799/2 Mid
CI8205-3	1	1	11/99	Track Layout pcb800/2 Bot
CI8205-10	1	1	1/00	Insulation Board
CI8205-9	1	1	12/99	Marking 8205
*CI5000-8	1	1	11/97	Transformer TFR310
*CI5000-8	2	1	11/97	Transformer TFR310
CI8206-1	1	1	12/99	Marking 8206
	ASEEFA Certificate			nd without any change, schedule

^{*}Held With BASEEFA Certificate Number Ex 98D2009/2

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





SUPPLEMENTARY 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
- BAS99ATEX7316U/1 Supplementary EC-Type Examination Certificate Number: 3
- Component: 8205-TI-IS, 8-CHANNEL IS, THERMOCOUPLE UNIT
- Manufacturer: MEASUREMENT TECHNOLOGY LTD 5
- Address: Luton, Bedfordshire, LU1 3JJ 6
- This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX7316U to 7 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.

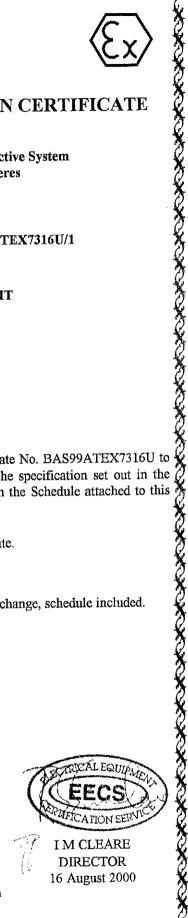
This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0703/02/277

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





14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX7316U/1

Description of the Variation to the Component

VARIATION TWO

To permit the addition of a number of small value EMC capacitors, the removal or alteration in value of various non-safety related components and the introduction of revisions to all three printed circuit boards to accommodate these changes. These changes apply to both the 8205-TI-IS, 8 Channel IS, Thermocouple Input Module and also the 8206-TI-IS, 8 Channel IS, RTD Input Module.

These changes do not affect the intrinsic safety assessment for either unit.

Report No.

00(C)0423

Schedule of Limitations

As original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
CI8205	1 to 13	2	5.00	Circuit diagram
CI8205-7	1 & 2	2	5.00	Safety Components Parts List
CI8205-1	1	2	5.00	Track layout Top p.c.b. 798/3
CI8205-2	1	2	5.00	Track layout Middle p.c.b. 799/3
CI8205-3	1	2	5.00	Track layout Bottom p.c.b. 800/3
CI8205-4	1	2	5,00	Component layout Top p.c.b. 798/3
CI8205-5	1	2	5.00	Component layout Middle p.c.b. 799/3
CI8205-6	1	2	5.00	Component layout Bottom p.c.b. 800/3

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





SUPPLEMENTARY 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
- 3 Supplementary EC-Type Examination Certificate Number: BAS99ATEX7316U/2
- 4 Component: 8205-TI-IS, 8-CHANNEL IS, THERMOCOUPLE UNIT
- 5 Manufacturer: MEASUREMENT TECHNOLOGY LTD
- 6 Address: Luton, Bedfordshire, LU1 3JJ
- This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX7316U 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 0703/02/277

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





13

14

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE Nº BAS99ATEX7316U/2

Description of the Variation to the Component

VARIATION THREE

To permit a minor modification to the PC800, bottom printed circuit board to exclude light from diodes D600-D607 and D650-D657. Also to permit a correction to the p.c.b. layout drawings.

These modifications apply to both the 8205-TI-IS, 8 Channel IS Thermocouple Input Module and also the 8206-TI-IS, 8 Channel IS RTD Input Module and do not affect the original intrinsic safety assessment.

Report No.

None.

Schedule of Limitations

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Issue	Date	Description
CI 8205-11 Sht 1	1	12.00	8205/6 Salvage Scheme
CI 8205-1	3	12.00	Pcb 798 Top Layout
CI 8205-2	3	12.00	Pcb 799 Mid Layout
CI 8205-3	3	12.00	Pcb 800 Bot Layout

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





SUPPLEMENTARY 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
- 3 Supplementary EC-Type Examination Certificate Number: BAS99ATEX7316U/3
- 4 Component: 8205-TI-IS, 8 CHANNEL IS, THERMOCOUPLE INPUT MODULE
- 5 Manufacturer: MEASUREMENT TECHNOLOGY LIMITED
- 6 Address: Power Court, Luton, Bedfordshire, LU1 3JJ
- This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX7316U 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 0703/02/277

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: +44(0)1298 28000 Fax: +44(0)1298 28244
internet: www.baseefa.com e-mail: baseefa.info.eccs@hsl.gov.uk



I M CLEARE DIRECTOR 19 February 2001



13 Schedule

14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE Nº BAS99ATEX7316U/3

Description of the Variation to the Component

VARIATION 3.1

To permit minor changes to the certification labels.

Report No.

None

Schedule of Limitations

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
CI8205-9	-	3	10.00	8205-TI-IS Certification Label
CI8206-1	-	2	10.00	8206-TI-IS Certification Label

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





- 3
- 5
- 6
- SUPPLEMENTARY 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

 Supplementary EC-Type Examination Certificate Number: BAS99ATEX7316U/4

 Component: 8205-TI-IS, 8 CHANNEL IS, THERMOCOUPLE INPUT MODULE

 Manufacturer: MEASUREMENT TECHNOLOGY LIMITED

 Address: Power Court, Lutton, Bedfordshire, LUI 3JJ

 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX7316U 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.

 **EECS 0703/02/277*

 **EECS 0703/02/277*

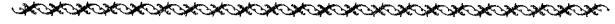
 **Electrical Englanmant Certification Service Bachin on Society Newsley Mer. SKIT NN. Insula Kington in Michael Certification Service Bachin on Society Newsley Mer. SKIT NN. Insula Kington in Michael Certification Service Bachin on Society Newsley Mer. SKIT NN. Insula Kington in Michael Certification Service Bachin on Society Newsley Mer. SKIT NN. Insula Kington in Michael Certification Service Bachin on Society No. 1884-1894 (School Cer

File No: EECS 0703/02/277

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.









14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE Nº BAS99ATEX7316U/4

Description of the Variation to the Component

VARIATION 4.1

To permit:-

- sixteen diodes D600 - D607 and D650 - D657 to be replaced by eight dual diode packages rated at I_f = 200mA and PIV = 100V. These diodes are not sensitive to light therefore the modification in Variation Three is no longer required.
- an increase in the value of capacitors C600, C601, C612, C650, C651 and C662 from 1nF 5% 100V to 2.2nF 10% 50V.
- the introduction of capacitors C614, C615, C616, C664, C665 and C666 at 2.2nF 10% 50V.
- d) a modification to the connections to IC10 pins 1 & 30.
- the Top and Bottom printed circuit boards to be modified to accommodate the above changes.

The original assessment is not affected by these changes.

DRAWINGS

WORKER CONTRACTOR CONT

Number	Sheet	Issue	Date	Description
CI8205	1 to 13	3	1.01	Circuit
CI8205-7	1 & 2	3	2.01	Parts List
CI8205-1	1	4	1.01	Printed Circuit Board - pcb798/4 Bottom
CI8205-6	1	3	1.01	Component Layout - pcb798/4 Bottom
CI8205-3	1	4	1.01	Printed Circuit Board - pcb800/4 Top
CI8205-4	1	3	1.01	Component Layout - pcb800/4 Top

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





SUPPLEMENTARY 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
- 3 Supplementary EC-Type Examination Certificate Number: See Schedule
- 4 Component: See Schedule
- 5 Manufacturer: MEASUREMENT TECHNOLOGY LIMITED
- 6 Address: Luton, Bedfordshire, LU1 3JJ
- 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.

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

File No: See Schedule

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: +44(0)1298 28000 Fax: +44(0)1298 28244 internet: www.baseefa.com e-mail: baseefa.info.eecs@hsl.gov.uk



DIM CLEARE DIRECTOR 21 February 2002



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.

Certificate No.	Supplement No.	Variation No.	Component Title	File No.
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.

14

Schedule of Limitations

See original certificates.

Essential Health and Safety Requirements

See original certificates.

DRAWING

Number	Issue	Date	Description
*C18000-5	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.

Certificate Number See Schedule



Issued 14 July 2009 Page 1 of 2

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:

Component:

See Schedule

5 Manufacturer:

GE Fanuc Intelligent Platforms

6 Address:

1

Butterfield, Luton, LU2 8DL

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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

R S SINCLAIR

Si-lai

DIRECTOR On behalf of Baseefa

Certificate Number See Schedule



Issued 14 July 2009 Page 2 of 2

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

PAI 99912 X 73184 7

Certificate Number See Schedule



Issued 27 July 2016 Page 1 of 2

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:

See Schedule

4 Component:

1

See Schedule

5 Manufacturer:

GE Intelligent Platforms

(formerly GE Fanue Intelligent Platforms)

6 Address:

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

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

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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail after bette and bette week to be site week to be saved as a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

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
C18200-10	1 to 3	3	7.10	Revised Label information for 8000 2/1 Product made by GE Intelligent Platforms – Baseefa
CI 8200-15	lofi	2	7.10	Optional Encapsulants and Alternative Address Prefixes

The above drawings are held with BAS98ATEX7205U.

Certificate Number BAS99ATEX7316U/8



Issued 5 September 2011 Page 1 of 2

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:

BAS99ATEX7316U/8

4 Component:

8205-TI-IS, 8 Channel IS, Thermocouple Input Module

5 Manufacturer:

GE Intelligent Platforms

6 Address:

1

2500 Austin Drive, Charlottesville, Virginia 22911, USA

This supplementary certificate extends EC - Type Examination Certificate No. BAS99ATEX7316U 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, 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. 6623

Project File No. 11/0547

DIRECTOR

On behalf of

Baseefa

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

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

Certificate Number BAS99ATEX7316U/8



Issued 5 September 2011 Page 2 of 2

13

14

Schedule

Certificate Number BAS99ATEX7316U/8

15 Description of the variation to the Component

Variation 8.1

To permit minor component changes on the 8205-TI-IS 8 Channel IS Thermocouple Input Module. As a result of these changes, the output parameters for Channels 5 and 6 of this module are now as follows: -

Channels 5 and 6 on Connectors CON5 and CON6 - Each Channel wired as a separate IS Circuit

Load Parameters

Although the above output parameters have changed, the corresponding load parameters remain as shown on the original Certificate.

The output parameters for channels 1, 2, 3, 4, 7 and 8 of the 8205-TI-IS module and all output parameters for the 8206-TI-IS 8 Channel IS, RTD Input Module remain unchanged.

16 Report Number

11(C)0547

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
CI8205-7	1 & 2	4	7.11	8205-TI-TC and 8206-TI-RT List of Components Essential to Intrinsic Safety