



TYPE EXAMINATION CERTIFICATE

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

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- 3 Type Examination Certificate Number: **Baseefa06ATEX0324X**
- 4 Equipment: **9331-TI 8-Channel Temperature Input Multiplexer**
- 5 This certificate is held by: **Measurement Technology Limited**
- 6 Address: **Luton, Bedfordshire, LU1 3JJ, UK**
- 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. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.
The examination and test results are recorded in confidential Report No. **06(C)0860**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-15: 2005
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 is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.
- 12 The marking of the equipment shall include the following :
⊕ II 3G EEx nL IIC T5 (-40°C ≤ Ta ≤ +65°C) or ⊕ II 3G EEx nA nL IIC T5 (-40°C ≤ Ta ≤ +65°C)
- This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0703**

Project File No. **06/0860**

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

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Baseefa is a trading name of Baseefa (2001) Ltd
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number Baseefa06ATEX0324X

15 Description of Equipment

The 9331-TI 8-Channel Temperature Input Multiplexer is designed to convert up to 8 temperature sensors, thermocouples or RTD's, into electrical signals and is designed to operate in either FOUNDATION or Profibus-PA mode by a change of software.

The apparatus comprises a communications board, an optional transient board and a sensor board, complete with terminals, all housed in a non IP rated plastic housing which in turn is located in a component certified metal or plastic enclosure. External electrical connections are made via up to 9 holes and the installation of the external connections and plugging of unused entries must be carried out using approved EEx e or EEx n cable gland and blanking plug component certified by an EU Approved Certification Body, or any appropriate cable gland and blanking plug certified $\text{\textcircled{E}}$ II 2G EEx e II by an EU Approved Certification Body. The enclosures which can be used are covered by the following certificates:

BAS98ATEX3098U
KEM99ATEX7895U
PTB01ATEX1028U
Sira01ATEX3236U

Input/Output Parameters

Terminal BUS, pins 1, 2:

$U_i = 42.4\text{Vdc}$
 $C_i = 0$
 $L_i = 0$

Sensor Inputs 1 to 8:

$U_o = 5\text{V}$
 $I_o = 2.5\text{mA}$
 $L_o = 1000\text{mH}$
 $C_o = 1000\mu\text{F}$

16 Report Number

06(C)0860

17 Special Conditions for Safe Use

1. Provision shall be made, external to the apparatus, to prevent the rated voltage (42.4Vdc) being exceeded by transient disturbances of more than 40%.
2. The ambient temperature range of use shall be the most restrictive of the apparatus, cable gland or blanking plug.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
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Type Examination Certificate No. BAS01ATEX3199X

CI9331-3	1 of 1	1	11.06	9331-TI Approval label – Baseefa – Type “n” enclosure
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