1   # TYPE EXAMINATION CERTIFICATE

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

3   Type Examination Certificate   **Baseefa06ATEX0325U**
Number:

4   Component: **9331-TI-xx 8-Channel Temperature Input Multiplexer**

5   This certificate is held by: **Measurement Technology Limited**

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

7   This component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended to form part 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   The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment. This partial certification may be used as a basis for certification of an equipment.

11   This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified components and not to specific components subsequently manufactured.

12   The marking of the component shall include the following :

See schedule.

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

Baseefa Customer Reference No. **0703**   Project File No. **06/0860**

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

13   **Schedule**

14   **Certificate Number Baseefa06ATEX0325U**

15   **Description of Component**

The 9331-TI-NL or 9331-TI-NA 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 component comprises a communications board, an optional transient board and a sensor board, complete with terminals, all housed in a non IP rated plastic housing.

    ⟨Ex⟩ II 3G EEx nL IIC T4 (-50°C ≤ Ta ≤ +85°C) or EEx nL IIC T5 (-50°C ≤ Ta ≤ +70°C)

    ⟨Ex⟩ II 3G EEx nA nL IIC T4 (-50°C ≤ Ta ≤ +85°C) or EEx nA nL IIC T5 (-50°C Ta ≤ +70°C)

Input/Output Parameters

Terminal BUS, pins 1, 2:   Sensor Inputs 1 to 8:

U_i = 42.4Vdc U_o = 5V
C_i = 0 I_o = 2.5mA
L_i = 0 L_o = 1000mH
                                        C_o = 1000µF

16   **Report Number**

06(C)0860

17   **Schedule of Limitations**

1.   The component must be housed in a suitably certified enclosure.

2.   Provision shall be made, external to the apparatus, to prevent the rated voltage (42.4Vdc) being exceeded by transient disturbances of more than 40%.

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
Type Examination Certificate No. BAS01ATEX3198U				
CI9331-2	1 of 1	1	12.06	9331-TI Approval label – Baseefa – Type "n"