



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa04ATEX0081**

4 Equipment or Protective System: **An Ultrasonic Flow Transmitter Mk III**

5 Manufacturer: **Daniel Europe Limited**

6 Address: **Stirling, FK9 4NF**

7 This equipment or protective system 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. **03(C)0182**

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

EN 50014: 1997 + Amendments 1 & 2 EN 50018: 2000 + Amendment 1 EN 50020: 2002

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for 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. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2 G EEx d ia IIB T4 (T_{amb} = -40°C to + 65°C)

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

Baseefa (2001) Ltd. Customer Reference No. **0265**

Project File No. **03/0182**

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 (2001) Ltd.

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M. ROWNEY
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On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa04ATEX0081

15 Description of Equipment or Protective System

An Ultrasonic Flow Transmitter Mk III rated up to 24V d.c. 8W, comprises a flameproof cylindrical housing with a threaded cover at each end, all manufactured from cast aluminium alloy. The side of the enclosure is provided with a large machined boss to attach a non-flameproof acquisition module enclosure. A line bushing to PTB97ATEX1047U is provided between the two enclosures. Electronics within the flameproof housing provide an intrinsically safe supply and signal conditioning to the flow transducers via the acquisition module.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

16 Report Number

Baseefa Certification Report 03(C)0182

17 Special Conditions for Safe Use

None

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
D-08650	1	B	03.25.04	General Assembly
D-08157	1	G	04.07.04	Housing – Machined
E-02814	1	D	02.18.04	Cover – Machined
C-15449	1	G	01.14.04	Cable Assembly
C-15449	2	G	01.14.04	Cable Assembly
B-16736	1	A	03.25.04	Warning Label
B-16656	1	B	03.25.04	Certification Label
D-08379	1	B	08.28.03	Upper Electronic Assembly
D-08650	1	A	01.05.04	Upper Electronic Assembly
D-08381	1&2	B	10.27.03	Lower Electronic Assembly
D-08380	1&2	B	09.26.03	Lower Electronic Assembly
DE-21056	1&2	B	12.03	Wiring diagram
CE-21028	1 to 4	B	6.5.03	Field Board
CE-21016	1 to 5	E	10.24.03	CPU Board
BE-21022	1 & 2	A	6.30.03	Schematic Barrier Board
CE-21020	1 to 5	D	2.16.04	Assembly Barrier Module
BE-21021	1 to 10	B	3.21.03	Barrier Board Details
BE-21026	1 to 10	D	11.3.03	Schematic Acquisition Board
CE-21024	1 to 5	D	12.20.03	Assembly Acquisition Module
BE-21025	1 to 14	C	12.02.03	Acquisition Board Details



Number	Sheet	Issue	Date	Description
DUK6194/935/1	1	A	29.06.01	Type T-11 Transducer
DUK6124/090/1	1	2	30.05.01	Type T-11 Transducer
DUK6124/102/3	1	1	7.1.02	Type T-12 Transducer GA
DUK6124/101/1	1	A	4.12.01	Type T-12 Transducer Transformer
DUK6124/100/1	1	A	30.11.01	Type T-12 Transducer