



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: **Baseefa04ATEX0214X**

4 Equipment or Protective System: **Xmt-C-HT**

5 Manufacturer: **Rosemount Analytical Inc.**

6 Address: **2400 Barranca Parkway, Irvine, California 92606, USA**

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. **04(C)0110**

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

EN 50014: 1997 + Amendments 1 & 2 **EN 50020: 2002** **EN 50284: 1999**

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 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 1 G EEx ia IIC T4 (-20°C ≤ Ta ≤ +50°C)

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

Baseefa (2001) Ltd. Customer Reference No. **0911**

Project File No. **04/0111**

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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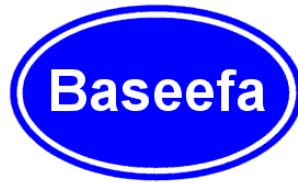
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0214X

15 Description of Equipment or Protective System

The Xmt-C-HT is designed to convert an electrical signal from a remote sensor into a 4-20mA HART compatible signal. The apparatus consists of a printed circuit board, terminal facilities and a liquid crystal display and keypad, all housed in a plastic enclosure.

To designate HART protocol compatibility, it has the designation suffix –HT.

Input/output parameters

Terminal Block 2, terminals 1 – 3

$$\begin{array}{ll} U_i = 30V & C_i = 1000pF \\ I_i = 200mA & L_i = 0 \\ P_i = 0.9W & \end{array}$$

Terminal Block 1, terminals 1 - 12

$$\begin{array}{ll} U_o = 7.16V & C_i = 8.81\mu F \\ I_o = 221mA & L_i = 0 \\ P_o = 280mW & \end{array}$$

Load parameters

The capacitance and either the inductance or the inductance to resistance (L/R) ratio of the load connected to Terminal Block 1, terminals 1 to 12, must not exceed the following:

Group	Capacitance μF	Inductance mH	OR	L/R Ratio $\mu H/\Omega$
IIC	4.7	3.02		66
IIB	231	12.80		282
IIA	> 1000	25.67		566

16 Report Number

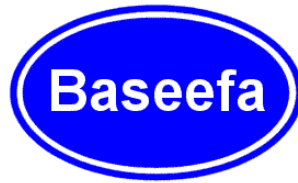
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17 Special Conditions for Safe Use

The plastic enclosure, excluding the front panel, must only be cleaned with a damp cloth.

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
400XMT26	1	A	01.30.04	Model Xmt-C
1700496	1-5	A	01.05.04	Schematic
1700521	1	A	01.22.04	G.A - Xmt-C-HT-10
1700523	1	A	01.22.04	G.A - Xmt-C-HT-11
1700529	1	A	01.05.04	PCB
9080161	1-2	D	08.08.02	Transformer
33633-00	1-2	G	03.08.00	Enclosure, front pipe mount
33634-00/01	1-2	K	08.14.03	Enclosure, rear pipe mount
33635-00	1	G	03.08.00	Cover, panel mount enclosure
33636-00	1-2	J	03.03.00	Enclosure, panel mount
33670-01	1-4	C	07.23.03	Overlay, Xmt
33831-01	1	B	02.18.04	Cover, PCB
33870-00	1	A	01.23.04	PCB
33870-00	1	A	10.02.03	PCB - Top
33870-00	2	A	10.02.03	PCB - Top Silk
33870-00	3	A	10.02.03	PCB - Top Mask
33870-00	4	A	10.02.03	PCB - Top Paste
33870-00	5	A	10.02.03	PCB - Target
33870-00	6	A	10.02.03	PCB - GND1
33870-00	7	A	10.02.03	PCB - +5V
33870-00	8	A	10.02.03	PCB - Bottom
33870-00	9	A	10.02.03	PCB - Bottom Silk
33870-00	10	A	10.02.03	PCB - Bottom Mask
33870-00	11	A	10.02.03	PCB - Bottom Paste