

(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: **KEMA 04ATEX1072 X**
- (4) Equipment or protective system: **Portable Thermal Environment Monitor Model Questemp 32, Model Questemp 34, Model Questemp 36 and Model HS-32**
- (5) Manufacturer: **Quest Technologies, Inc.**
- (6) Address: **1060 Corporate Center Drive, Oconomowoc, WI 53066, 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) KEMA Quality B.V., notified body number 0344 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. 2070450.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014 : 1997 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, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. 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 ia IIC T3**

Arnhem, 16 April 2004
KEMA Quality B.V.



C.G. van Es
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX1072 X**

(15) **Description**

The portable, battery powered Thermal Environment Monitors Model Questemp 32, Model Questemp 34, Model Questemp 36 and Model HS-32 monitor, display and record the four parameters ambient temperature or dry bulb temperature, natural wet bulb temperature, globe temperature and relative humidity.

Ambient temperature range -5 °C ... +60 °C.

Electrical data

Supply non-rechargeable battery or rechargeable NiMH battery;
nominal voltage 9 Vdc.

(16) **Report**

KEMA No. 2070450.

(17) **Special conditions for safe use**

1. Only following types of batteries may be used:

Non-rechargeable battery:

<u>Type:</u>	<u>Manufacturer:</u>
U9V	Ultralife
MN1604	Duracell
522 or EN22 or 6LR61	Energizer
A1604 or BR232	Rayovac
6LR61 or 6AM6	Panasonic

Rechargeable battery:

Integral NiMH battery pack type DC2121.

2. The batteries may not be replaced respectively be recharged within the hazardous area.
3. The rechargeable battery may only be recharged with a class 2 charger, rated 9 Vdc, 1 A max.
4. The plugs or sockets marked "SENSOR 2", "SENSOR 3", "FLOW" and "DATA" may not be used within the hazardous area.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

1. Certificate of Conformity DEMKO No. 99E.126594X

dated

2. Drawing List Questemp 32 Series

11.12.2003