

# CERTIFICATE

## (1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 04ATEX1225**

Issue Number: **2**

(4) Equipment: **VITO MRT Interface Model 762**

(5) Manufacturer: **Enraf B.V.**

(6) Address: **Delftechpark 39, 2628 XJ Delft, The Netherlands**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification 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 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 test report number NL/KEM/05/1005/02.

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

**EN 60079-0 : 2012**

**EN 60079-11 : 2012**

**EN 60079-26 : 2007**

(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 EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



**II 1/2 G Ex ia IIB T4 Ga/Gb**

This certificate is issued on September 30, 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

T. pijpker  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX1225**

Issue No. 2

(15) **Description**

The VITO MRT Interface Model 762 consists of a circuit board providing intrinsically safe supply and communication (connector CN10 and CN11) and intrinsically safe Sensor input/outputs (CN1...CN9) which can be used in combination with Multiple Resistance Temperature (MRT) Sensors (not necessarily from the same manufacturer).

The enclosure of the MRT Interface Model 762 is made of stainless steel and aluminium and the enclosure of the VITO Probe Models is made of stainless steel.

The enclosures have a degree of ingress protection of IP65 in accordance with EN 60529.

Ambient temperature range -40 °C to +60 °C.

**Electrical data**

Input/Output circuit (terminal CN10 and CN11):

in type of protection intrinsic safety Ex ia IIB, only to be connected to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 24 \text{ V}$ ;  $I_i = 200 \text{ mA}$ ;  $P_i = 2 \text{ W}$ ;  $C_i = 6 \text{ nF}$ ;  $L_i = 0 \text{ }\mu\text{H}$

Measurement circuit (terminal CN1 ... CN9):

in type of protection intrinsic safety Ex ia IIB, with the following maximum values:

$U_o = 7,2 \text{ V}$ ;  $I_o = 31 \text{ mA}$ ;  $P_o = 56 \text{ mW}$ ;  $C_o = 240 \text{ }\mu\text{F}$ ;  $L_o = 139 \text{ mH}$

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/KEM/05/1005/02.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/KEM/05/1005/02.