



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

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate **INERIS 05ATEX0040**

- (4) Protective system or equipment :

METRAHIT 27Ex Type MILLIOHMETER

- (5) Manufacturer: **GOSSEN METRAWATT**

- (6) Address: **Thomas-Mann-Str. 16-20
D - 90471 NURNBERG)**

- (7) This protective system or equipment and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this protective system or equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N°P61585/05.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014 of June 1997 + A1 and A2
EN 50 020 of June 2002

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance 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 the protective system will have to contain:

 II 2 G

EEx ia IIA T4

Verneuil-en-Halatte, 2005 07 06



T. DELBAERE

Engineer at the Laboratory of Certification of ATEX
Equipment



Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy manager of Certification

(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N°INERIS 05ATEX0040

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The apparatus is a milliohmeter for earth continuity measurements.

PARAMETERS RELATING TO THE SAFETY

Output characteristics :

| Slots | U _o (V) | I _o (A) | P _o (W) | Co (μF) | Lo (μH) |
|-------------|--------------------|--------------------|--------------------|---------|---------|
| I-/U-/U+/I+ | 6,4 | 0,56 | 0,59 | 545 | 75 |

MARKING

Marking must be readable and indelible ; it must include the following indications:

GOSSEN METRAWATT
 Thomas-Mann-Str.16-20
 D - 90471 NURNBERG
 METRAHIT 27Ex.
 INERIS 05ATEX0040
 (Serial number)
 (Year of construction)



II 2 G

EEx ia IIA T4
 T.amb : -10°C to 50°C
 DO NOT REPLACE BATTERIES IN HAZARDOUS AREA

The whole marking can be carried out in the language of the country of use

The protective system or equipment must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

None

(16) DESCRIPTIVE DOCUMENTS

The technical report is composed of the document quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Technical dossier DT00CJ rev.A of 2005.07.07
- Operating Instructions 2005.06.06

(17) SPECIAL CONDITIONS FOR SAFE USE

None.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the European standards EN 50 014 and EN 50 020.
- The whole of the provisions adopted by the manufacturer and described in the descriptive documents.