



(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)	C _o (μF)	L _o (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.

ADDITION

- (3) INERIS 05ATEX0040/01
- (4) MILLIOHMETER TYPE METRAHIT 27EX
- (5) Made by GOSSEN METRAWATT

(15) PURPOSE OF THE ADDITION

- Modification of electronic safety components on the PCB
- Introduction of new cell type DURACELL PROCELL MN1500 - AA
- Application of new standards EN60079-0 and EN60079-11

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are modified as follows:

Output parameters:

Slots	U _o (V)	I _o (A)	P _o (W)	C _o (μF)	L _o (μH)
I-/U-/U+/I+	8.7	0.58	0.79	559	300

MARKING

The marking is modified as follows:

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



II 2 G

Ex ia IIA T4

DO NOT REPLACE BATTERIES IN HAZARDOUS AREA

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- Technical report M227D/F/G (14 pages + 27 drawings) signed on 2008.08.06

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are unchanged.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the European standards EN 60079-0:2006 and EN 60079-11:2007.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2008 08 27



Director of the Certifying Body,
By delegation
T. HOUEIX
Certification Officer

ADDITION

(3) INERIS 05ATEX0040/02

(4) MILLIOHMETER TYPE METRAHIT 27EX

(5) Made by GOSSEN METRAWATT

(15) PURPOSE OF THE ADDITION

- Electronic components modifications on the printed circuits board.
- Introduction of a new battery type Longlife R6L4B/10 from PHILIPS manufacturer.
- Application of EN 60079-0: 2009, EN60079-0: 2012 and EN60079-11: 2012 standards.


PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

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

 II 2 G

Ex ia IIA T4 Gb

DO NOT REPLACE BATTERIES IN HAZARDOUS AREA

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitutes the technical documentation describing the modification of the equipment, subject of this present addition.

- Additive 02 to technical file (5 pages + 30 drawings) signed on 2013.10.18

(17) **SPECIAL CONDITIONS FOR SAFE USE**

The special conditions for safe use are unchanged.

(18) **ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the standards quoted in clause (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2013.12.03



The Chief Executive Officer of INERIS
By delegation
T. HOUEIX
Ex Certification Officer