



(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 03ATEX0177X**

(4) Protective system or equipment:

POCKET PUMP TYPE 210-1002TX

(5) Manufacturer: **SKC LTD**

(6) Address: **UNIT 11 SUNRISE PARK
HIGHER SHAFTESBURY ROAD
BLANDFORD FORUM
GB - DORSET DT11 8ST**

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

(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 No P40972/03.

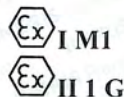
(9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014 of June	1997 + Amendments 1 and 2
EN 50 020 of June	2002
EN 50 284 of January	1999
EN 50 303 of January	2000

- 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:



EEx ia I

EEx ia IIB T4

Verneuil-en-Halatte, 2003 12 22

T. HOUEIX

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 03ATEX0177X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The pocket pump type 210-1002TX is a portable pump which provides for the programming, monitoring and measuring of gas flow.

To carry out these functions the pocket pump contains a printed circuit card on which electronic components are implanted. This card is enclosed in a plastic casing.

The informations are presented on an LCD screen.

The pocket pump type 210-1002TX has a jack plug (power connector) which, when outside explosive atmospheres, allows for connection with a battery charger, and a connector with four pins marked I, J, K, L can allow connection in explosive atmospheres with equipment certified as intrinsically safe.

PARAMETERS RELATING TO THE SAFETY

The maximum input characteristics on power connector are :

Ui (V)	Ii (A)	Ci (nF)	Li (mH)
11	0,850	0	0

The maximum output characteristics on 4 pins connectors I, J, K, L are :

To use in gassy mines :

Uo (V)	Io (A)	Co (µF)	Lo (µH)
9	2,44	1426,3	73

To use in explosible atmospheres group IIB :

Uo (V)	Io (A)	Co (µF)	Lo (µH)
9	2,44	76,3	65

MARKING

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

- **SKC LTD**
UNIT 11 SUNRISE PARK
HIGHER SHAFTESBURY ROAD
BLANDFORD FORUM
GB - DORSET DT11 8ST
- 210-1002TX
- INERIS 03ATEX0177X
(serial number)
- (Year of construction)
-  I M1 EEx ia I
-  II 1 G EEx ia IIB T4

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

The protective apparatus or system 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 report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Operating Instructions 210-1002TX dated and signed on 2003.12.19.
- Document : ineris-1 version n°2 dated and signed on 2003.07.01.
- Document : ineris-2 version n°2 dated and signed on 2003.07.01.
- Document : ineris-3 version n°1 dated and signed on 1996.10.04.
- Document : ineris-4 version n°1 dated and signed on 1996.10.04.
- Nomenclature : PPB6CPL (2 pages) vers. n°6 dated and signed on 1996.05.16.
- Nomenclature : PPMCPPL (2 pages) vers. n°1 dated and signed on 1995.07.16.
- Nomenclature : PPPCBCPL (4 pages) vers. n°4 dated and signed on 1995.07.16.
- Drawing : 0108C044 version n°4 dated and signed on 1995.04.04.
- Drawing : 0108C056 version n°6 dated and signed on 1996.05.12.
- Drawing : 210-1002TX (5 pages) version n°4 dated and signed on 2003.07.01.
- Drawing : 79512 version n°4 dated and signed on 1995.07.16.
- Drawing : P20129TX (2 pages) version n°10 dated and signed on 2003.07.01.
- Drawing : SKC79514 version n°6 dated and signed on 1996.05.12.

(17) SPECIAL CONDITIONS FOR SAFE USE

The connector for recharging the accumulators (power connector) may be used only outside explosive atmospheres.

The equipment connected to the pins I, J, K, L, must be certified as intrinsically safe for use in gassy mines or explosive atmospheres of Group IIB and its association with the pocket pump type 210-1002 must be compatible from the point of view of intrinsic safety.

The maximum input characteristics U_i , I_i of these equipments must be equal or greater than U_o and I_o characteristics which are defined in "parameter relating to the safety" and the maximal characteristics C_i and L_i of these equipments must be equal or lower than C_o and L_o characteristics which are defined in "parameters relating to the safety".

The another special conditions are defined in operating instructions.

(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, EN 50 020, EN 50 284 and EN 50 303.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

(3) **INERIS 03ATEX0177X/01**

(4) **POCKET PUMP TYPE 210-1002TX**

(5) **Made by SKC LTD**

(15) - PURPOSE OF THE ADDITION

Possible mechanical modification of the envelope and the pump to introduce the new type 210-1003TX.

Update of the descriptives documents

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking defined in the basic certificate is unchanged.

ROUTINE EXAMINATIONS AND TESTS

The routine verifications and tests stipulated by the basic certificate are unchanged.

(16) - DESCRIPTIVE DOCUMENTS

The document referred to below, constitutes the file describing the modifications of the apparatus and forming the subject of the present addition.

Certification file dated and signed on 2005.06.06 with 12 drawings and 2 parts list whose references are as follows:.

Drawings ref : 210-1003TX rev.A 1/4 to 4/4 on 2005.05.26

Drawings ref : 210-1002TX rev.A 1/4 to 4/4 on 2005.05.25

Drawing ref : 013-01-008 rev.A on 2005.01.14

Drawing ref : 013-01-012 rev.A on 2005.06.01

Drawing ref : 013-02-040 rev.A on 2005.05.27

Drawing ref : 006-06-005 rev.A on 2005.06.01

Parts List (2 pages) ref : PPMCPL on 2005.05.31

Parts List (2 pages) ref : PPMCPL-1003TX on 2005.05.31

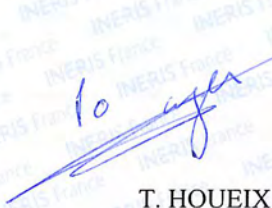
(17) - SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use defined in the basic certificate are unchanged.

(18) - ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

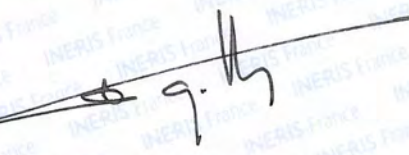
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2005.06.14


T. HOUEIX

Engineer at the Laboratory of Certification of ATEX
Equipment




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

ADDITION

(3) INERIS 03ATEX0177X/02

(4) POCKET PUMP TYPE 210-1002TX

(5) Made by SKC LTD

(15) PURPOSE OF THE ADDITION

- Taken into account by the new certification standards :
 - EN 60079-0 : 2006
 - EN 60079-11 : 2007
 - EN 60079-26 : 2007
- Use of a new material for the envelope.
- Use of the new pack of battery P20129MTX.
- Introduction of the new types of pump (type 210-1002MTX and type 210-1003MTX).

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows :

SKC LTD
UNIT 11 SUNRISE PARK
HIGHER SHAFTTESBURY ROAD
GB - DORSET DT11 8ST


210-1002TX or 210-1002MTX or 210-1003TX or 210-1003MTX

INERIS 03ATEX0177X

(serial number)

(year of construction)

 I M1 Ex ia I

 II 1 G Ex ia IIB T4

WARNING : USE ONLY WITH P20129TX BATTERY PACK (for types 210-1002TX and 210-1003TX) or P20129MTX (for types 210-1002MTX and 210-1003MTX).

WARNING : DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.

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

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

- | | | |
|--|---------------------------------|-----------------------|
| - Drawing SKC-IS-0031 Rev.1 | dated on 2009/08/20 | signed on 2010/01/14. |
| - Drawing SKC-IS-0032 Rev.1 | dated on 2009/08/21 | signed on 2010/01/14. |
| - Drawing SKC-IS-0033 Issue.1 | dated on 2009/08/20 | signed on 2010/01/14. |
| - Drawing SKC-IS-0034 1/3 to 3/3 Rev.1 | dated on 2009/08/24 | signed on 2010/01/14. |
| - Drawing SKC-IS-0035 Rev.3 | dated on 2009/10/20 | signed on 2010/03/23. |
| - Drawing SKC-IS-0036 Rev.1 | dated on 2009/08/21 | signed on 2010/01/14. |
| - Drawing SKC-IS-0037 1/4 to 4/4 Rev.2 | dated on 2010/03/04 | signed on 2010/03/23. |
| - Drawing SKC-IS-0038 1/4 to 4/4 Rev.2 | dated on 2010/03/04 | signed on 2010/03/23. |
| - Operating instructions | dated and signed on 2010/01/14. | |

(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 modified, it is ensured by :

- Conformity to the European standards : EN 60079-0, EN 60079-11, EN 60079-26 and EN 50 303.
- The whole of the provisions adopted by the manufacturer and described in the descriptive documents.

Verneuil-en-Halatte, 2010 04 26



D. Charpentier

Director of the Certifying Body,
By delegation
D. CHARPENTIER
Deputy Manager of Certification

ADDITION

(3) INERIS 03ATEX0177X/03

(4) POCKET PUMP TYPE 210-1002TX

(5) Made by SKC LTD

(15) PURPOSE OF THE ADDITION

Possibility of using a new resin (epoxy resin PX804C) for the battery pack compound.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is unchanged.

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.

- Drawings SKC-IS-0034 1/3 to 3/3 rev.3 dated and signed on 2011.01.10

(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 unchanged.

Verneuil-en-Halatte, 2011.02.10



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

ADDITION

(3) INERIS 03ATEX0177X/04

(4) POCKET PUMP TYPE 210-1002TX

(5) Made by SKC LTD

(15) PURPOSE OF THE ADDITION

- Taken into account by the certification standards :

- EN 60079-0 : 2009
- EN 60079-0 : 2012
- EN 60079-11 : 2012

- Use of new pressure sensors.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are modified as follows:

The maximum input characteristics on power connector are:

Ui (V)	Ii (A)	Ci (nF)	Li (mH)
11	0.850	0	0

The maximum output characteristics on 4 pins connectors I, J, K, L are:

To use in gassy mines:

Uo (V)	Io (A)	Co (μF) for L=0	Lo (μH) for C=0
9.6	2.70	426	62.1

To use in explosible atmospheres group IIB:

Uo (V)	Io (A)	Co (μF) for L=0	Lo (μH) for C=0
9.6	2.70	6.3	17.6

MARKING

The marking is unchanged.

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.

- | | | |
|---------------------------------------|-----------------------------------|-------------|
| - Descriptive note (1page) | dated and signed on | 2014.01.21. |
| - Drawing SKC-IS-0037 rev.3 (4 pages) | dated and signed on | 2014.01.21. |
| - Drawing SKC-IS-0038 rev.3 (4 pages) | dated and signed on | 2014.01.21. |
| - Drawing 0108C044 rev.5 | dated on 2014.01.24 and signed on | 2014.01.28. |
| - Part list N°PPPCBCPL rev.6 | dated on 2014.01.27 and signed on | 2014.01.28. |

(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 modified, it is ensured by:

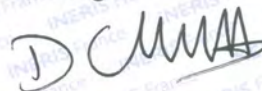
- Conformity to the European standards: EN 60079-0: 2009, EN 60079-0: 2012, EN 60079-11: 2012, EN 60079-26: 2007 and EN 50 303: 2000.
- The whole of the provisions adopted by the manufacturer and described in the descriptive documents.

Verneuil-en-Halatte, 2014.02.17

Dominique CHARPENTIER

Certification Division

Manager



The Chief Executive Officer of INERIS

By delegation

T.HOUEIX

Ex Certification Officer

ADDITION

(3) **INERIS 03ATEX0177X/05**

(4) **POCKET PUMP TYPE 210-1002TX**

(5) **Made by SKC LTD**

(15) **PURPOSE OF THE ADDITION**

Consideration of the following certification standards :

- EN 60079-0 : 2012 +A11: 2013.
- EN 60079-11 : 2012.
- EN 60079-26 : 2007.
- EN 50303 : 2000.

Possibility to use a new battery cell NiMH, model NUH2/3A-1100, type 1100P.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is unchanged.

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.

- Descriptive note (1 page) dated on 2015.09.17.
- Part list N°SKC-IS-0033 Issue 2 (1 page) dated on 2015.06.12.

All these documents were signed on 2015.09.17.

(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 or modified 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, 2015.11.03

Dominique CHARPENTIER
Responsable Pôle Certification
Certification Division, Manager



The Chief Executive Officer of INERIS
By delegation

