ISSeP
Institut scientifique de service public
Métrologie environnementale
Recherche - Analyses
Essais - Expertises

Siège social et site de Liège :
Rue du Chéra, 200
B-4000 Liège
Tél : +32(0)4.229.83.11
Fax : +32(0)4.252.46.65

Site de Colfontaine :
Zoning A. Schweitzer,
rue de la Platinerie
B-7340 Colfontaine
Tél : +32(0)65.61.08.11
Fax : +32(0)65.61.08.08

e-mail :
direction@issep.be
site web :
http://www.issep.be

(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: **ISSeP08ATEX018**

(4) Equipment or protective system:
Thermal conductivity transmitter model 2000XTC.

(5) Applicant – Manufacturer – ~~Authorized representative in the Community~~:
TELEDYNE INSTRUMENTS - ANALYTICAL INSTRUMENTS

(6) Address:
P.O. Box 1580
City of Industry
CA, 91749-1580
U.S.A.

(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) ISSeP, notified body n^{r} 492 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 n^{r} 08054.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with :
EN 60079-0 : 2006 (IEC 60079-0 : 2004)
EN 60079-11 : 2007 (IEC 60079-11 : 2006)

(10) If the symbol "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 equipement or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may 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 indications:
Ex II 2 G Ex ib II C T3

Colfontaine, the 22.04.2008.

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Zoning A. Schweitzer, rue de la Platinerie
B-7340 COLFONTAINE (Wasmes)
Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808

Marcel LAMBERT,
Manager.

ISSeP
Institut scientifique de service public
Métrologie environnementale
Recherche - Analyses
Essais - Expertises

(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^{R} ISSeP08ATEX018

(15) Description of the equipment or protective system:

Thermal conductivity transmitter model 2000XTC

It is composed by an interface unit and a sensor unit.
The interface unit shall be situated either in non hasardous area in an enclosure having a protection degree of, at least, IP 20, or in an enclosure assuring a normalised protection mode.

The maximum permissible length for the cable between the interface and the sensor is 100 FT.

Electrical parameters : None.

Routine tests :
The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype or sample (CEI 60079-0 ; clause 27).

Eventual prescriptions : None.

(16) Report n^{r} 08054 of 15.04.2008

Composed in total of 36 pages, completed by the following descriptive documents

Instruction manual "Operating Instructions for 2000 XTC Thermal Conductivity Transmitter"

The drawings:

Number	Rev.	Date	Description
C-74836	1	18.01.2008	Outline Diagram Thermal Conductivity Xmitter Model 2000 XTC
C-74837	1	16.01.2007	Interconnection Diagram T/C Transmitter Model 2000 XTC
C-74838	3	18.01.2008	Final Assembly T/C Transmitter Model 2000XTC
C-74938	4	18.01.2008	Sensor Unit Assembly T/C Transmitter Model 2000 XTC
C-74939	1	07.03.2005	Final Assembly Interface Unit Model 2000XTC
B-74934	0	17.03.2003	Cable Assembly Interconnect Model 2000 XTC
C-73749	0	17.03.2003	Schematic Diagram T/C Transmitter Board Model 2000XTC
C-73750	1	18.01.2008	PCB Assembly T/C Transmitter Board Model 2000XTC
C-73751	0	17.03.2003	Fabrication Detail T/C Transmitter Board Model 2000XTC
C-74635	0	17.03.2003	Schematic Diagram Interface Board 1 of 2 Model 2000XTC
C-74627	2	18.01.2008	PCB Assembly Interface Board 1 of 2 Model 2000XTC

Institut scientifique de service public
Métrologie environnementale
Recherche - Analyses
Essais - Expertises

SCHEDULE

EC TYPE EXAMINATION CERTIFICATE N^{R} ISSeP08ATEX018

C-74628	0	17.03.2003	Fabrication Detail T/C Transmitter Board Model 2000XTC
C-74634	0	17.03.2003	Schematic Diagram Interface Board 1 of 2 Model 2000XTC
C-74632	3	16.01.2008	PCB Assembly Interface Board 1 of 2 Model 2000XTC
C-74633	0	17.03.2003	Fabrication Detail Interface Board 1 of 2 Model 2000XTC
A-74933	1	19.08.2004	Subass'y Cell Block Model 2000 XTC
B-74941	0	17.03.2003	Heater Assembly Model 2000XTC
B-74936	0	17.03.2003	Detail Cell Fabrication
B-74958	0	08.08.2002	Specification Drawing Transformer
C-74935	0	17.03.2003	Bracket Detail Model 2000 XTC
C-74937	1	17.03.2003	Enclosure Detail Transmitter Unit Model 2000 XTC
C-74942	2	16.01.2008	Silkscreen Detail Transmitter Unit Model 2000XTC
B-75057	2	16.01.2008	Label Detail Interface Unit Model 2000 XTC
C-75058	0	17.03.2003	Label Detail Interface Unit Model 2000XTC

The part lists :
- C73750 rév. 1 of 18.01.2008
- C74627 rév. 1 of 18.01.2008
- C74632 rév. 3 of 16.06.2005

(17) Special conditions for safe use: None

(18) Essential Health and Safety Requirements: Covered by the Standards listed in (9)