

IEC SCHEME FOR CERTIFICATION TO
STANDARDS FOR ELECTRICAL
EQUIPMENT FOR EXPLOSIVE
ATMOSPHERES (IECEX Scheme)

SYSTEME CEI POUR CERTIFICATION SELON
LES NORMES RELATIVES AUX APPAREILS
ELECTRIQUES DESTINES A ETRE UTILISES EN
ATMOSPHERES EXPLOSIBLES (SYSTEME CEIEx)

IECEX TEST REPORT
RAPPORT CEIEx D'ESSAIS

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trade mark (if any)
Marque de fabrique (si elle existe)

Model/type Ref.
Ref. de type

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
*Un échantillon de ce produit a été essayé et a été
considéré conforme à la*

as shown in the Test Report, Ref. No.
*comme indiqué dans le Rapport d'essais, numéro
de référence*

Data logger and transmitter

Zed. I Solutions (Canada) Inc.
1855 - 94 Street, Suite 101
Edmonton, AB T6N 1E6
Canada

Zed. I Solutions (Canada) Inc.
1855 - 94 Street, Suite 101
Edmonton, AB T6N 1E6
Canada

Fuji Electric Co. Ltd.
2140, Enzan Oyashiki
Kousyu-City, Yamanashi, 404-0053
Japan

6V Battery Powered with Input/Output Entity Parameters
Ex ia [ia] IIC T3

N/A

Model SA2005

N/A

PUBLICATION

IEC 60079-11 : 1999
IEC 60079-0 : 2000

EDITION

4.0
3.1

205470-1662361

The ExTR is issued by the following Certification Body
Le Rapport ExTR Ex est émis par l'organisme de certification suivante



CSA International
1707 - 94th Street
Edmonton, AB T6N 1E6
CANADA

January 18, 2006
Date

Signature

Dave Adams

IECEX TEST REPORT

Section 1

To be completed by ExCB

Reference No: CA/CSA/06/TR205470-1662361

IEC 60079-11

Field of application This form is intended to be used when assessing and testing electrical apparatus for explosive atmospheres according to the standard specified in the adjoining column. The test results are valid for the tested items only.	Standard: IEC 60079-11 : 1999 Electrical apparatus for explosive gas atmospheres – Intrinsic safety "i" Amendments: None	Instructions for use This ExTR version consolidates the requirements of the indicated standards. ExCB review is to be recorded in Appendix A of the Section 2 Report. The short descriptions in the column "Heading of Clause" therein do not replace the complete text in the standard. The "ExCB Review" column segments must contain an entry of either "Pass" or "Fail" or "N/A" for each clause. The applicant is the body/person who has requested the assessment/test and to which the results, as specified in this report, are provided.
Reproduction This report must not be reproduced other than in its entirety except with the prior written approval of the issuing body	IEC 60079-0 : 2000 Electrical apparatus for explosive gas atmospheres – General requirements Amendments: None	This test report may only be used for the IECEx Scheme and must be accompanied by an ExTR cover page issued by an ExCB.

Product name Smart-Alek data logger and transmitter		Model/Type designation SA2005
Serial No N/A - Prototype	Code (e.g. Ex _ II_ T_) Ex ia [ia] IIC T3	Ambient temperature [min-max] -20°C ≤Ta ≤+40 °C
Applicant [name and postal address] Zed. I Solutions (Canada) Inc. 1855 - 94 Street, Suite 101 Edmonton, AB T6N 1E6 Canada	Manufactured by [name and postal address] Zed. I Solutions (Canada) Inc. 1855 - 94 Street, Suite 101 Edmonton, AB T6N 1E6 Canada	
Test sample received [date] Between March and December 2005		
Product description Model SA2005 Smart-Alek data logger and transmitter; Maximum Working Pressure 2500psi; Temperature Code T3; 6V sealed lead acid battery powered (P/N 14599); Intrinsically Safe providing I.S. inputs and outputs with Entity Parameters when connected as per installation drawing 14525.		
The equipment complies with the standard [yes/no] YES	Prepared by [signature] Dave Adams	Date [year-month-day] Jan 18, 2006

Section 2
EVALUATION RECORD
To be completed by ExTL

IEC 60079-11: 1999
IEC 60079-0 : 2000

Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety "i"
Electrical equipment for explosive atmospheres – Part 0: General requirements

Report

Reference No.

Tested by (+ signature) Andrew Redeker.....

Approved by (+ signature) Gary Boswell

Date of issue Jan 18, 2006

Content Manufacturers Documents 59 pages.....

Andrew Redeker
G. Boswell

Client

Name

Zed. I Solutions (Canada) Inc.

Address

1855 - 94 Street, Suite 101
Edmonton, AB T6N 1E6

Evaluation Record Form No. ExTR6007911/Version 3

Copyright reserved to the bodies participating in the IECEX Scheme

Testing laboratory

Name

CSA International
1707 - 94 Street N.W.
Edmonton, Alberta T6N 1E6
Canada

Address

Testing location

Test item

Standards IEC 60079-11 and IEC 60079-0

Description

Smart Alek Data Logger and Transmitter

Trademark.

N/A

Model and/or type reference.....

SA 2005

Manufacturer

Zed. I Solutions (Canada) Inc.

Test Item (continued)

Rating(s)	6V Battery Powered with Input/Output Entity Parameters
.....	
Type of transformers (where relevant)....	N/A
Application	stationary
Protection index	IP20
Other characteristics	N/A
Rated ambient temperature t_a (°C)	$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$

Other information

General remarks

This evaluation record is not valid unless appended to an IECEx Test Report issued by an ExCB, in accordance with IECEx 02.

This evaluation record shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this evaluation record relate only to the item(s) tested.

Copy of marking plate

zed.i solutions  Smart-Alek[®]
Intelligent Flow Monitoring System

D.P. (IWC):	_____ 24 _____ 125 _____ 520
S.P. (PSI):	_____ 72.5 _____ 435 _____ 1450 _____ 2500
M.W.P. (PSI):	_____ 72.5 _____ 435 _____ 1450 _____ 2500

SA 2005

S/N _____ P/N _____ MODEM _____

BATTERY PACK: 6V (P/N 14599) sealed lead-acid rechargeable.

CLASS I, DIV 1 GROUPS C & D T3

Exia, Intrinsically Safe

Made in Japan

Exia [ia] IIB T3

Class I, Zone 0, AEx ia [ia] IIB T3

Type 4 Enclosure

[Exia], ASSOCIATED EQUIPMENT provides I.S. circuits for
Division 1 / Zone 0 when installed as per drawing 14525.

WARNING: TO PREVENT IGNITION OF A HAZARDOUS ATMOSPHERE:

- ONLY CHANGE BATTERIES IN AN AREA KNOWN TO BE NON-HAZARDOUS.

AVERTISSEMENT: AFIN DE PRÉVENIR L'INFLAMMATION D'ATMOSPHÈRES HASARDEUSES:

- NE PAS CHANGEZ BATTERIES QUE DANS ENDROITS DÉSIGNÉS NON-HASARD.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE.

