

**FINAL ATEX REPORT ON EQUIPMENT FOR USE IN  
POTENTIALLY EXPLOSIVE ATMOSPHERES**

**FOR**

**GOLDEN PROMISE EQUIPMENT INC.**

**ON**

**FLOW MONITOR, GPE3000 SERIES,**


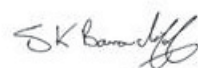


**REPORT NO. TRA-015825-33-00A**

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## ATEX TEST REPORT COVER

ExTR Reference Number .....	TRA-015825-33-00A
ExTR Free Reference Number .....	N/A
Compiled by + signature (ExTL).....	A Dearden 
Reviewed by + signature (ExTL) .....	S K Barrowcliff 
Approved by + signature (ExCB).....	A Chandrahasan 
Date of issue .....	2013-12-20
Ex Testing Laboratory (ExTL) .....	TRaC Global Ltd
Address .....	Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom
Ex Certification Body (ExCB) .....	TRaC Global Ltd
Address .....	Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom
Applicant's name .....	Golden Promise Equipment Inc.
Address .....	15 Libella Court, Essex County, Newark, NJ 07105, USA
Standards associated with this ExTR package .....	EN60079-0:2009, EN60079-1:2007, EN60079-31:2009
Clauses considered .....	All
Test procedure .....	TRaC procedures
Test Report Form Number .....	ExTR Cover_4 (released 2010-12), TRaC form RF528 is02
Test item description .....	Flow monitor
Model/type reference .....	GPE3000 series
Code (e.g. Ex __ II__ T__ ) .....	 II 2G Ex d IIC T4 Gb II 2D Ex tb IIIC T135°C Db
Rating .....	30Vdc 25mA
All testing fully performed by ExTL staff at ExTL address above:	Yes

**Instructions for Intended Use of ExTR Cover:**

An ExTR Cover is the sole top-level document to associate together all other parts of an IECEx Test Report (ExTR) package. An ExTR package is comprised of an ExTR Cover and one or more associated ExTR documents (which may include Ex Test Reports, ExTR Addendums and ExTR of National Differences). All ExTR package documents are compiled and reviewed by the ExTL. The Issuing ExCB indicates final approval of the overall ExTR package on this ExTR Cover.

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Manufacturer's name.....: Golden Promise Equipment Inc  
 Address .....: 15 Libella Court, Essex County, Newark, NJ 07105, USA  
 Trademark .....: GPE

**Particulars: Test item vs. Test requirements**

Classification of installation and use ..... : stationary  
 Ingress protection .....: IP66  
 Rated ambient temperature range (°C).....: -30°C to +70°C

**General remarks:**

The test results presented in this ExTR package relate only to the item or product tested.

- "(see Attachment #)" refers to additional information appended to the ExTR package.
- "(see appended table)" refers to a table appended to the ExTR package.
- Throughout this ExTR package, a point is used as the decimal separator.
- Throughout this report the date format yyyy-mm-dd is used
- Where the term "N/A" appears in any part of an ExTR package, it indicates that the associated issue was considered "Not applicable" to the involved evaluation.
- In accordance with IECEx 02, a Receiving ExCB may request a sample of the Ex equipment and copies of the documentation referred to in an ExTR Cover.

The technical content of this ExTR package shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL.

General remarks pertaining to this programme of test and assessment are detailed at the end of each section of the ExTR.

Photographs of the equipment under test are contained in are contained in the Attachments appended within this report.

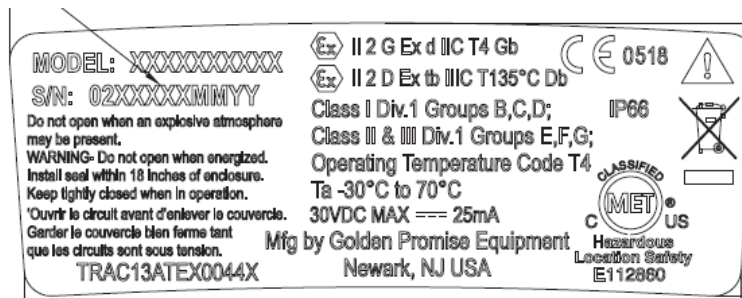
A list of test equipment used is contained in are contained in the Attachments appended within this report.

ATEX only – a list of Essential Health and Safety Requirements from the ATEX directive is contained in the Attachments appended within this report.

Test and assessment dates: 2013-09-11 to 2013-12-02.

**The equipment tested complied with the requirements of the test standards listed on page 1 of this report. The manufacturers documentation provided in support of this application satisfied the requirement of the relevant product evaluation annexes of the ATEX directive.**

**Copy of Marking Plate:**



**General product information:**

The equipment is a digital signal processing flow monitor. It is housed inside a flameproof aluminium enclosure with a glass window. Cable entry is by means of a conduit opening size 3/4" NPT.

Equipment rating 30Vdc, 25mA Maximum.

The equipment model number format is GPE30bc-dd with the following options:-

- b = Model  
X = Base  
Z = Advanced
- c = Mount  
R= Remote
- dd = Units of Measure  
CS = Customer Selectable

**Compliance strategy:**

This report covers the Trade agent (TA) certificate in the name of Golden Promise Equipment Inc (GPE) based on the original certificate TRAC12ATEX0017X V1, manufacturer Badger Meter Inc (OEM) for a Flow monitor, B3000 series.

Evidence was provided showing that there is a signed Trade Agent agreement between the TA and OEM. That the TA will market the Flow monitor, GPE3000 series purchased from the OEM and that the products supplied to the TA shall be identical to those detailed in the certificate TRAC12ATEX0017X V1.

The TA has completed a signed EC Declaration of Conformity.

No further testing was considered necessary, a new marking label and instructions in the name of GPE was provided.

**In accordance with OD 024, testing not fully performed by ExTL staff at the above ExTL address:**

None.

**National differences considered as part of this evaluation, if any:**

N/A

**“Conditions of Use” for Ex Equipment:**

- 1) The equipment must be installed in accordance with EN60079-14:2008 and a suitable conduit seal be installed within 18 inches (458mm) of the enclosure

**Routine tests, if any:**

None.

**Special conditions for manufacture, if any:**

None.

<b>Manufacturer's Documents</b>			
Title:	Drawing No.:	Rev. Level:	Date:
B3000; Explosion Proof; Basic, Remote Mount	B300118	C	2011-12-05
B3000; Explosion Proof; Advanced, Remote Mount	B300119	C	2011-12-05
B3000; Explosion Proof; Advanced, Remote Mount; VOLUME	B300119-VOL	*	2011-12-05
Enclosure, Instrument; Explosion Proof B3000	B300107	B	2012-03-28
B3000 XP Monitor CPU Board	B300013	E	2011-09-16
Battery, 3.6VDC D-Cell W/ Leads & Molex Connector	B300028	*	2010-03-31
Decal, Model/Serial No.; B3000X ; ATEX model GPE3000	B300137	A	2013-11-13
Cover Plate; ExplosionProof B3000	B300108	A	2011-06-01
Label, Terminals; B3000 Basic XP Monitor	B300109	A	2011-09-15
Label, Terminals; B3000 Advanced XP Monitor	B300110	A	2011-09-15
Installation & Operational Manual (52 pages)	GPE-PM-00022-EN-01	*	2013-03
* denotes information not provided.			

ATTACHMENT 01- PHOTOGRAPHS

Photograph 1 – General view



Drawing reference: None

## ATTACHMENT 02 - NATIONAL DIFFERENCES

## DIRECTIVE 94/9/EC - ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (ANNEX II)

Clause	Requirement	Conformity Demonstrated by:
<b>1. GENERAL REQUIREMENTS</b>		
1.0.1	Principles of integrated explosion protection	Considered as part of EN60079-0, EN60079-1, EN60079-31
1.0.2	Analysis of possible operating faults	Considered as part of EN60079-0, EN60079-1, EN60079-31.
1.0.3	Special checking and maintenance conditions	Considered as part of EN60079-0, EN60079-1
1.0.4	Surrounding area conditions	Considered as part of EN60079-0, EN60079-1, EN60079-31.
1.0.5	Marking	Considered as part of EN60079-0, EN60079-31.
1.0.6	Instructions	Considered as part of EN60079-0.
<b>1.1 MATERIALS</b>		
1.1.1	Materials not to trigger off explosion	Considered as part of EN60079-0, EN60079-1, EN60079-1
1.1.2	Effect of explosive atmosphere on materials	Considered as part of EN60079-0, EN60079-1
1.1.3	Changes in characteristics of materials and combinations thereof	Considered as part of EN60079-0, EN60079-1
<b>1.2 DESIGN AND CONSTRUCTION</b>		
1.2.1	Design with regard to technological knowledge	Considered as part of EN60079-1,
1.2.2	Components for incorporation or replacement	Considered as part of EN60079-0, EN60079-1
1.2.3	Enclosed structures and prevention of leaks	Considered as part of EN60079-0.
1.2.4	Dust deposits	Considered as part of EN60079-31.
1.2.5	Additional means of protection	Considered as part of EN60079-0.
1.2.6	Safe opening	Considered as part of EN60079-0, EN60079-1
1.2.7	Protection against other hazards	Covered by other EU safety directives
1.2.8	Overloading of equipment	Considered as part of EN60079-0, EN60079-31.
1.2.9	Flameproof enclosure systems	Considered as part of EN60079-1.
<b>1.3 POTENTIAL IGNITION SOURCES</b>		
1.3.1	Hazard arising from different ignition sources	Considered as part of EN60079-0, EN60079-1, EN60079-31.
1.3.2	Hazards arising from static electricity	Considered as part of EN60079-0,
1.3.3	Hazards arising from stray electric and leakage currents	Considered as part of EN60079-0,
1.3.4	Hazards arising from overheating	Considered as part of EN60079-0, EN60079-1
1.3.5	Hazards arising from pressure compensation operations.	N/A
<b>1.4 HAZARDS ARISING FROM EXTERNAL EFFECTS</b>		

ATTACHMENT 02 - NATIONAL DIFFERENCES		
DIRECTIVE 94/9/EC - ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (ANNEX II)		
1.4.1	Safe function in changing external conditions	Considered as part of EN60079-0
1.4.2	Withstanding attack by aggressive substances	Considered as part of EN60079-0,
1.5 REQUIREMENTS IN RESPECT OF SAFETY RELATED DEVICES		
1.5.1	General requirements for safety related devices	N/A
1.5.2	Safety device failure	N/A
1.5.3	Restart lockouts	N/A
1.5.4	Control and display units	N/A
1.5.5	Devices with a measuring function	N/A
1.5.6	Checking accuracy and serviceability	N/A
1.5.7	Safety Factor	N/A
1.5.8	Risk arising from software	N/A
1.6 INTEGRATION OF SAFETY REQUIREMENTS RELATING TO THE SYSTEM		
1.6.1	Manual override	N/A
1.6.2	Emergency shutdown	N/A
1.6.3	Hazards arising from power failure	N/A
1.6.4	Hazards arising from connections	N/A
1.6.5	Placing of warning devices as parts of equipment	N/A
2. SUPPLEMENTARY REQUIREMENTS IN RESPECT OF EQUIPMENT		
2.0.1	Category M1	N/A
2.0.2	Category M2	N/A
2.1.1	Category 1G	N/A
2.1.1.1	Equipment design and construction	Considered as part of EN60079-0, EN60079-1
2.1.1.2	Surface Temperature	Considered as part of EN60079-0, EN60079-1
2.1.1.3	Opening	Considered as part of EN60079-0, EN60079-1
2.1.2	Category 1D	N/A
2.2.1	Category 2G	Considered as part of EN60079-0, EN60079-1.
2.2.2	Category 2D	Considered as part of EN60079-0, EN60079-31
2.3.1	Category 3G	N/A
2.3.2	Category 3D	N/A
3. SPECIFIC REQUIREMENTS FOR PROTECTIVE SYSTEMS		
3.0	General Requirements	N/A
3.1	Planning and Design	N/A





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