



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX LCI 10.0035X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 4 Issue 3 (2013-11-29)
Date of Issue: 2020-09-15 Issue 2 (2011-11-17)
Issue 1 (2011-04-11)
Issue 0 (2010-10-19)
Applicant: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America
Equipment: **Vibration transmitter - Type : ST5484E-AAA-BBCD-EF**
Optional accessory:
Type of Protection: **Ex ia**
Marking:
Ex ia IIC T4 Ga
(Refer to the annex of the certificate for the full marking)

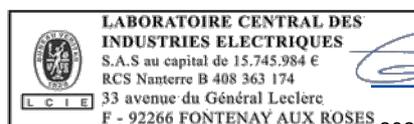
Approved for issue on behalf of the IECEx
Certification Body:

Julien Gauthier

Position:

Certification officer

Signature:
(for printed version)



Date:

2020-09-15

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
Fontenay-aux-Roses FR-92260
France



METRIX DOC NO: 1185352
REV: C



IECEX Certificate of Conformity

Certificate No.: **IECEX LCI 10.0035X**

Page 2 of 4

Date of issue: 2020-09-15

Issue No: 4

Manufacturer: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[FR/LCI/ExTR10.0037/00](#)
[FR/LCI/ExTR10.0037/03](#)

[FR/LCI/ExTR10.0037/01](#)
[FR/LCIE/ExTR18.0031/00](#)

[FR/LCI/ExTR10.0037/02](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/06](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx LCI 10.0035X**

Page 3 of 4

Date of issue: 2020-09-15

Issue No: 4

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The vibration transmitter is used to detect vibration level of machine. It provides at the output a current, in the range 4-20 mA, function of the vibration level.

The sensor electronic boards are installed in a stainless steel enclosure which can be optionally mounted on a 8200 series Killark metallic enclosure.

The entire sensor unit is encapsulated.

The equipment must be installed per drawing 9278.

The equipment provides different connection types: 2 or 4-wire flying leads, 2 or 4-pin terminal block, 2-pin MIL terminal.

See attachment for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The intrinsically safe apparatus shall only be connected to associated intrinsically safe apparatus certified for the intended use. This association shall comply with the requirements of IEC 60079-25 standard.
- Ambient temperature range: - 40°C to + 100°C
- When the optional aluminium elbow enclosure is used, the equipment must be installed in such a way that, even in the event of rare incidents, the aluminium enclosure cannot be an ignition source due to impacts or frictions.
- The models equipped with terminals or flying leads shall be mounted on an additional enclosure having a protection degree of at least IP20 and conform to IEC 60079-0, Edition 7.0.
- For the models equipped with additional dynamic output, this output cannot be used when the equipment is situated in hazardous area.



IECEx Certificate of Conformity

Certificate No.: **IECEx LCI 10.0035X**

Page 4 of 4

Date of issue: 2020-09-15

Issue No: 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 00 :

Conformity assessment according to IEC 60079-0:2004 Ed 4.0 and IEC 60079-11:2006 Ed 5 standards.

Issue 01 :

Update of documents.

Issue 02 :

- Change of two EMI filters on input ports,
- Addition of a new casting compound as an alternative to thos previously used.

Issue 03 :

- Normative update according to IEC 60079-0 Ed 6.0 and IEC 60079-11 Ed 6 standards.
- Clarification of the model reference : ST5484E-XXX-Y3Z-WW or ST5484E-XXX-Y5Z-WW or ST5484E-Y7Z-WW mounted with optional conduit elbow 8200-001.

Issue 04 :

- Normative update according to IEC 60079-0 Ed. 7.0 standard
- Modification and clarification of the model reference : ST5484E-AAA-BB7D with AAA, BB, D, E and F variable parts, including the connection types as following : 2-wire or 4-wire flying leads, 2-pin or 4-pin terminal block, 2-pin MIL terminal.
- Conduit elbows (8200 series) could be used with flying leads and terminal blocks versions, excepted for MIL-connector (not compatible).
- Update of technical drawings and documents implementing RoHS compliance required.

Annex:

[IECEx LCI 10.0035X - Issue 04 - Annex 01_1.pdf](#)



Annex 01 to Certificate IECEX LCI 10.0035X issue 04



FULL EQUIPMENT DESCRIPTION

The vibration transmitter is used to detect vibration level of machine. It provides at the output a current, in the range 4-20 mA, function of the vibration level.

The sensor electronic boards are installed in a stainless steel enclosure which can be optionally monted on a 8200 series Killark metallic enclosure.

The entire sensor unit is encapsulated.

The equipment must be installed per drawing 9278.

The equipment provides different connection types: 2 or 4-wire flying leads, 2 or 4-pin terminal block, 2-pin MIL terminal.

Title	Reference	Rev. Level	Date
Technical File	1891766	A	2020/02/04
Installation manual	M9162	--	--

MARKING

METRIX INSTRUMENT Co.

Address: ...

Type: ST5484E-AAA-BBCD-EF (1)

Serial number: ...

Year of construction: ...

Ex ia IIC T4 Ga

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +100^{\circ}\text{C}$

IECEX LCI 10.0035X

$U_i : 29.6 \text{ V}, I_i : 100 \text{ mA}, P_i : 0.75 \text{ W}, C_i : 70 \text{ nF}, L_i : 0.6 \mu\text{H}$

(1) Completed with the model.

RANGE DETAILS

ST5484E-AAA-BBCD-EF, with AAA, BBCD and EF variable digits defined as:

AAA (3 digits) : range

Model ST5484E-		A1	A2
Peak	RMS		
121	151	1.0 IPS	25.4 mm/s
122	152	0.5 IPS	12.7 mm/s
123	153	2.0 IPS	50.8 mm/s
124	154	5.0 IPS	125 mm/s
126	156	0.8 IPS	20.3 mm/s
132	162	3.0 IPS	76.2 mm/s

BB (2 digits) : housing material and stud size

00-09, 20	303 SST housing, multiple stud sizes
10-19, 30	316 SST housing, multiple stud sizes

C (1 digit) : hazardous area certification

3	ATEX, Ex ia IIC T4 Ga
7	ATEX/IECEX, Ex ia IIC T4 Ga
B	ATEX/EAC, Ex ia IIC T4 Ga

D : Connection type

0	24" Flying Leads, 2-wire (4-20 mA output only)
1	24" Flying Leads, 4-wire (4-20 mA output and dynamic raw acceleration signal)
2	Terminal Block, 2-wire (4-20 mA output only)
3	Terminal Block, 4-wire (4-20 mA output and dynamic raw acceleration signal)
4	2-Pin MIL-style (4-20 mA output only)
5	72" Flying Leads, 2-wire (4-20 mA output only)
6	72" Flying Leads, 4-wire (4-20 mA output and dynamic raw acceleration signal)

E : high pass (-3db)

0	2 Hz
1	5 Hz
2	10 Hz
3	20 Hz
4	50 Hz
5	100 Hz
6	200 Hz
X	CUSTOM

F : low pass (-3db)

0	1500 Hz
1	500 Hz
2	1000 Hz
3	2000 Hz
4	250 Hz
5	230 Hz
X	CUSTOM

RATINGS

Intrinsic safety electrical parameters : U_i : 29.6 V, I_i : 100 mA, P_i : 0.75 W, C_i : 70 nF, L_i : 0.6 μ H

ROUTINE TESTS

None.

APPARATUS OVERVIEW



Flying Leads
(Option D=0, 1, 5, or 6) (2-wire shown; 4-wire also available)



4-Pin Terminal Block
(Option D=3)



2-Pin Terminal Block
(Option D=2)



2-Pin MIL Connector
(Option D=4)



Annex 01 to Certificate IECEX LCI 10.0035X issue 04



ADDITIONAL MANUFACTURING LOCATIONS

None.

TEST & ASSESSMENT REPORTS

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR10.0037/00
FR/LCI/ExTR10.0037/01
FR/LCI/ExTR10.0037/02
FR/LCI/ExTR10.0037/03
FR/LCIE/ExTR18.0031/00

Quality Assessment Report:

GB/BAS/QAR10.0017/06



The following pages are the prior revisions of this certificate.



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx LCI 10.0035X issue No.:3
Status: **Current**
Date of Issue: **2013-11-29** Page 1 of 4

Certificate history:
Issue No. 3 (2013-11-29)
Issue No. 2 (2011-11-17)
Issue No. 1 (2011-4-11)
Issue No. 0 (2010-10-19)

Applicant: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Electrical Apparatus: **Vibration transmitter type ST5484E-...**
Optional accessory:

Type of Protection: **ia**

Marking: METRIX INSTRUMENT Co.
Address :...
Type : ST5484E-... (1)
Serial number :
Year of construction :
Ex ia IIC T4 Ga
IECEx LCI 10. 0035 X
-40°C ≤ Tamb ≤ +100°C
Ui ≤ 29.6 V, Ii ≤ 100 mA, Pi ≤ 0,75 W, Ci ≤ 70 nF, Li ≤ 0.60 µH
(1)see attachment

Approved for issue on behalf of the IECEx
Certification Body:

Julien Gauthier

Position:

Certification officer

Signature:
(for printed version)



Date:

2013-11-29

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".



METRIX DOC NO: 1185352
REV: B



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2013-11-29

Issue No.: 3

Page 2 of 4

Manufacturer: **Metrix Instrument Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR10.0037/00
FR/LCI/ExTR10.0037/03

FR/LCI/ExTR10.0037/01

FR/LCI/ExTR10.0037/02

Quality Assessment Report:

GB/BAS/QAR10.0017/00

GB/BAS/QAR10.0017/01

GB/BAS/QAR10.0017/02



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2013-11-29

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The vibration transmitter is used in detecting machine vibration and providing an indication of increased vibration levels by increasing current consumed by the device. It must be installed per drawing 9278. There is no free internal volume as the entire unit is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

This transmitter must only be associated to IS certified apparatus, and this combination must be compatible as regards intrinsic safety.

The electrical parameters of certified equipment can be connected to the transmitter must not exceed any of these following values :

$U_0 \leq 29.6V$, $I_0 \leq 100mA$, $P_0 \leq 0.75W$.



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2013-11-29

Issue No.: 3

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 : update of documents.

Issue 2 : change of two EMI filters on input ports, addition of a new casting compound as an alternative to those previously used.

Issue 3 :

Normative update according to IEC 60079-0 Ed 6.0 and IEC 60079-11 Ed 6 standards.

Clarification of the model reference : ST5484E-XXX-Y3Z-WW or ST5484E-XXX-Y5Z-WW or ST5484E-XXX-Y7Z-WW mounted with optional conduit elbow 8200-001.

Annex: LCIE 10.0035X-attachment 1.pdf

METRIX DOC NO: 1185352
REV: B



IECEX LCI 10.0035 X issue 3 Attachment n°01



Designation of the model : ST5484-aaa-bcd-ef :

aaa : range

Model ST5484E-		A1	A2
Peak	RMS		
121	151	1,0 IPS	25,4 mm/s
122	152	0,5 IPS	12,7 mm/s
123	153	2,0 IPS	50,8 mm/s
124	154	5,0 IPS	125 mm/s
126	156	0,8 IPS	20,3 mm/s
132	162	3,0 IPS	76,2 mm/s

b : housing material and stud size

0-9, 20	303 SST housing, multiple stud sizes
10-19, 30	316 SST housing, multiple stud sizes

c : hazardous area certification

3	ATEX, Ex ia IIC T4 Ga
5	INMETRO, Ex ia IIC T4 Ga
6	INMETRO, Ex d IIC T4 Gb
7	IECEX, Ex ia IIC TA Ga
8	ATEX/IECEX, Ex d IIC T4 Gb

d : dynamic output

0, 2, 4, 5	4-20mA output only
1, 3, 6	Dynamic output = 100mV/g

e : high pass (-3db)

0	2 Hz
1	5 Hz
2	10 Hz
3	20 Hz
4	50 Hz
5	100 Hz
6	200 Hz
X	CUSTOM

f : low pass (-3db)

0	1500 Hz
1	500 Hz
2	1000 Hz
3	2000 Hz
4	250 Hz
5	230 Hz
X	CUSTOM



The following pages are the prior revisions of this certificate.



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx LCI 10.0035X issue No.:2
Status: **Current**
Date of Issue: **2011-11-17** Page 1 of 4

Certificate history:
Issue No. 2 (2011-11-17)
Issue No. 1 (2011-4-11)
Issue No. 0 (2010-10-19)

Applicant: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Electrical Apparatus: **Vibration transmitter**
Optional accessory:

Type of Protection: **ia**

Marking: **METRIX INSTRUMENT Co.**
Address :...
Type : **ST5484E**
Serial number :
Year of construction :
Ex ia IIC T4
IECEX LCI 10. 0035 X
-40°C ≤ Tamb ≤ +100°C
Ui ≤ 29.6 V, li ≤ 100 mA, Pi ≤ 0,75 W,
Ci ≤ 70 nF, Li ≤ 0.60 µH

Approved for issue on behalf of the IECEx
Certification Body:

Michel Brenon

Position:

Certification officer

Signature:
(for printed version)

Date:

November 28, 2011

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Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France



LCIE

METRIX DOC NO: 1185352
REV: A



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-11-17

Issue No.: 2

Page 2 of 4

Manufacturer: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[FR/LCI/ExTR10.0037/02](#)

Quality Assessment Report:
[GB/BAS/QAR10.0017/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-11-17

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The vibration transmitter is used in detecting machine vibration and providing an indication of increased vibration levels by increasing current consumed by the device. It must be installed per drawing 9278. There is no free internal volume as the entire unit is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

This transmitter must only be associated to IS certified apparatus, and this combination must be compatible as regards intrinsic safety.

The electrical parameters of certified equipment can be connected to the transmitter must not exceed any of these following values :

$U_0 \leq 29.6V$, $I_0 \leq 100mA$, $P_0 \leq 0.75W$.



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-11-17

Issue No.: 2

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: update of the technical file.

Issue 2:

- Change of two EMI filters on input ports.
- Addition of a new casting compound as an alternative to those previously used.

The following pages are the prior revisions of this certificate.



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx LCI 10.0035X issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2011-4-11)
Issue No. 0 (2010-10-19)

Date of Issue: 2011-04-11 Page 1 of 4

Applicant: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Electrical Apparatus: **Vibration transmitter**
Optional accessory:

Type of Protection: **ia**

Marking: **METRIX INSTRUMENT Co.**
Address :...
Type : ST5484E
Serial number :
Year of construction :
Ex ia IIC T4
IECEX LCI 10. 0035 X.....
-40°C ≤ Tamb ≤ +100°C
Ui ≤ 30V, Ii ≤ 100mA, Pi ≤ 0,75W,
Ci ≤ 29nF, Li ≈ 0

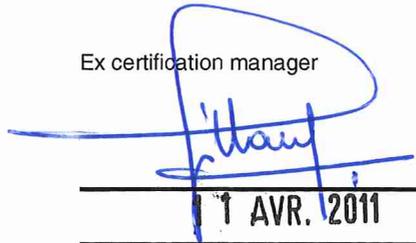
Approved for issue on behalf of the IECEx
Certification Body:

Marc Gillaux

Position:

Ex certification manager

Signature:
(for printed version)



11 AVR. 2011

Date:

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Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France



METRIX DOC NO: 1185352
REV: A



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-04-11

Issue No.: 1

Page 2 of 4

Manufacturer: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Manufacturing location(s):

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STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

- | | |
|---|---|
| IEC 60079-0 : 2004
Edition: 4.0 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| IEC 60079-11 : 2006
Edition: 5 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR10.0037/01

Quality Assessment Report:

GB/BAS/QAR10.0017/00



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-04-11

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The vibration transmitter is used in detecting machine vibration and providing an indication of increased vibration levels by increasing current consumed by the device. It must be installed per drawing 9278. There is no free internal volume as the entire unit is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

This transmitter must only be associated to IS certified apparatus, and this combination must be compatible as regards intrinsic safety.

The electrical parameters of certified equipment can be connected to the transmitter must not exceed any of these following values :

$U_0 \leq 30V$, $I_0 \leq 100mA$, $P_0 \leq 0,75W$



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2011-04-11

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- Update of documents



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx LCI 10.0035X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: 2010-10-19 Page 1 of 3

Applicant: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Electrical Apparatus: **Vibration transmitter**
Optional accessory:

Type of Protection: **ia**

Marking: **METRIX INSTRUMENT Co.**
Address :...
Type : ST5484E
Serial number :
Year of construction :
Ex ia IIC T4
IECEX LCI 10. 0035 X.....
-40°C ≤ Tamb ≤ +100°C
Ui ≤ 30V, li ≤ 100mA, Pi ≤ 0,75W,
Ci ≤ 29nF, Li ≈ 0

Approved for issue on behalf of the IECEx
Certification Body:

Marc Gillaux

Position:

Ex certification manager

Signature:
(for printed version)



19/10/10

Date:

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33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France



L C I E

METRIX DOC NO: 1185352
REV: A



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2010-10-19

Issue No.: 0

Page 2 of 3

Manufacturer: **METRIX INSTRUMENT Co.**
8824 Fallbrook Drive
Houston, Texas 77064
United States of America

Manufacturing location(s):

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IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR10.0037/00

Quality Assessment Report:

GB/BAS/QAR10.0017/00

METRIX DOC NO: 1185352
REV: A



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 10.0035X

Date of Issue: 2010-10-19

Issue No.: 0

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The vibration transmitter is used in detecting machine vibration and providing an indication of increased vibration levels by increasing current consumed by the device. It must be installed per drawing 9278. There is no free internal volume as the entire unit is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

This transmitter must only be associated to IS certified apparatus, and this combination must be compatible as regards intrinsic safety.

The electrical parameters of certified equipment can be connected to the transmitter must not exceed any of these following values :

$U_0 \leq 30V$, $I_0 \leq 100mA$, $P_0 \leq 0,75W$

ExTR :	
ExTR Reference Number *: (automatic numbering)	FR/LCI/ExTR10.0037/00
Status*:	Issued
ExTR Free Reference Number*:	101708-602234
Date of Issue*: (yyyy-mm-dd)	2010-10-19
List of Standards Covered*:	IEC 60079-0 (Ed.4.0); IEC 60079-11 (Ed.5)
Issuing ExTL*:	LCI - Laboratoire Central des Industries Electriques (LCIE)
Endorsing ExCB*:	LCI - Laboratoire Central des Industries Electriques (LCIE)
Manufacturer*:	METRIX INSTRUMENT Co. 8824 Fallbrook Drive Houston, Texas 77064
Country of Manufacture*:	United States of America
Ex Protection*:	ia
Ratings:	Ui ≤ 30V, Ii ≤ 100mA, Pi ≤ 0,75W, Ci ≤ 29nF, Li ≈ 0
Product*:	Vibration transmitter
Model Reference*:	ST5484E
Related IECEX Certificates:	IECEX LCI 10.0035X issue: 0 [Current]
Comment:	
Attachment:	