



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 TRC 14.0033U Issue No: 0 Certificate history:
Issue No. 0 (2015-06-19)

Status: **Current** Page 1 of 3

Date of Issue: **2015-06-19**

Applicant: **Minco Products**
7300 Commerce Lane,
Minneapolis,
Minnesota 55432,
United States of America

Electrical Apparatus: **Flameproof Enclosure, Types CH356, CH357 and CH358**
Optional accessory:

Type of Protection: **Flameproof**

Marking: Ex d IIC Gb

*Approved for issue on behalf of the IECEx
Certification Body:*

Stephen Winsor

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

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.**

Certificate issued by:

TRaC Global Ltd.
Unit 1 Pendle Place
Skelmersdale
West Lancashire
WN8 9PN
United Kingdom





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Manufacturer: **Minco Products**
7300 Commerce Lane,
Minneapolis,
MN 55432
United States of America

Additional Manufacturing
location(s):

Minco SAS (France)
Zone Industrielle,
09310, Aston
France

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 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

*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:

[GB/TRC/ExTR14.0032/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0028/03](#) [FR/LCIE/QAR12.0001/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Flameproof enclosures types CH356 are constructed from stainless steel and types CH357 and CH358 from aluminium. The CH358 differs from the CH357 only in that the CH358 has a grey epoxy finish. All the enclosure types are cylindrical enclosures fitted with M80 threaded lids with two threaded entries, one to the side and one on the base, the thread type options are as detailed below. The enclosure volumes are 220cm³ for the CH357 and CH358 and 230cm³ for the CH356. The enclosures are designed primarily for the connection of sensors and can be supplied empty, with terminals or a temperature transmitter.

CONDITIONS OF CERTIFICATION: NO

Annex:

[Annex to Certificate of Conformity IECEx TRC 14.0033U is 0.pdf](#)



TRaC Global Limited,
Unit 1, Pendle Place,
Skelmersdale,
West Lancashire, WN8 9PN,
United Kingdom

Annex to IECEx Certificate of Conformity

IECEx TRC 14.0033U issue No.:0

Schedule of Limitations for Ex Equipment:
<ol style="list-style-type: none">1. Rotating electrical machines or other devices which create turbulence shall not be incorporated.2. Oil-filled circuit breakers and contactors shall not be used.3. The enclosures are designed to be used in an ambient temperature range of -50°C to +60°C.4. The content of the Ex component enclosure maybe placed in any arrangement providing that an area of at least 40% of each cross-sectional area remains free to permit unimpeded gas flow and unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12.5mm.5. Only suitably rated and approved Ex certified cable glands and blanking elements shall be used.6. When evaluating the component enclosure as equipment, apply the requirements of IEC 60079-1 Annex D.4.7. The enclosures qualify for a T6 classification, for an upper ambient of +60°C, when the internal equipment fitted has a max power dissipation of 1.35W.



Annex to IECEx Certificate of Conformity

IECEx TRC 14.0033U issue No.:0

Manufacturer's Documents

Title:	Drawing No.:	Rev. Level:	Date:
Flameproof Connection Head Approval Drawing CH356 Series (2 pages)	B13089	B	2014-10-31
Flameproof Connection Head Approval Drawing (Epoxy Coated Gray) CH358 Series (2 pages)	B13795	E	2014-10-31
Flameproof Connection Head Approval Drawing CH357 Series (2 pages)	B13794	E	2014-10-31
Label, CH356, CH357, Ch358 Series Connection Heads	B204091	B	2014-10-31
Minco Installation and Operation Instructions (2 pages)	SPI 75-1087 Appendix B	E	*
*no information provided			