



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 BVS 15.0099X issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2017-6-6)
Issue No. 0 (2015-11-26)

Date of Issue: **2017-06-06** Page 1 of 4

Applicant: **Contrec Ltd.**
Riverside, Canal Road
Sowerby Bridge
HX6 2AY
West Yorkshire
United Kingdom

Equipment: **Instrument type **M.***
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: **Ex ia IIB T4 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:

2017-06-06

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Manufacturer: **Contrec Ltd.**
Riverside, Canal Road
Sowerby Bridge
HX6 2AY
West Yorkshire
United Kingdom

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:

[DE/BVS/ExTR15.0098/01](#)

Quality Assessment Report:

[GB/SIR/QAR15.0002/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Type Designation

See Annex

Description

The instruments provide display, control and alarm functions. Depending on the model, the apparatus have a frequency or 4-20 mA current input, 2 or 4 floating output circuits and a 4-20 mA current output. The Model 202Ai Rate-Totaliser is a microprocessor based equipment designed to measure a 4-20 mA signal. The Model 202Ai is powered from a 4-20 mA input signal and therefore, requires no external power. The Model 202Di Rate Totaliser is a microprocessor based equipment which accepts a frequency or pulse input from a wide range of flowmeters. Three different versions of the Model 202Di are available:

1. A Battery powered version 202Di.*0 with no output.
2. A DC powered version 202Di.*3 with either high and low flow alarms or a low flow alarm and pulse output. The instrument uses batteries for backup if the DC power is interrupted.
3. A Loop Powered Version 202Di.*4 with 4-20 mA output and alarms as above. The equipment draws its operating power from the 4-20 mA loop and uses batteries for backup if the 4-20 mA loop is interrupted.

The Model 214Di will operate from an external power source between 9-28 VDC. As the equipment has an internal battery backup it will power the instrument if DC power is interrupted.

The Model 220i is powered entirely from the 4-20 mA loop and, therefore, does not require an external power source.

The Model 250i is the same as the Model 220i apart from the software.

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment with plastic enclosure type *.*M shall be mounted in areas where electrostatic charge / discharge will be avoided.



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

- The manufacturer's name was changed from Contrec Manufacturing (UK) Ltd to Contrec Ltd.
- Metallic enclosure has been added.
- The type designation was changed from 2**i.x* to *.**M.*