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 PRE 17.0003X**

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Certificate history:
Issue 2 (2022-12-12)
Issue 1 (2021-06-28)
Issue 0 (2017-05-05)

Status: **Current**

Issue No: 3

Date of Issue: 2023-01-16

Applicant: **Mistras Group**
195 Clarksville Road
Princeton Junction
New Jersey 08550-503
United States of America

Equipment: **ISPKxxI, ISPKxxUC, ISRxxx-HT, ISWxxx-HT and ISPKxxIUC with a 1281 or 1281-LP interface**

Optional accessory:

Type of Protection: **Ex ia IIC T6-T3 Ga/ [Ex ia] IIIC T85C-T200C [Ex ia] IIIC Da**

Marking: Barrier Interface:

1281-5015

Um=250V

Uo=5,88V

Io=0,297A

Po=0,44W

Lo=0,35 mH

Co=43 uF

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

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

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:

DNV Product Assurance AS
Veritasveien 1
1363 Høvik
Norway

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Certificate No.: **IECEx PRE 17.0003X**

Date of issue: 2023-01-16 Issue No: 3

Manufacturer: **Mistras Group**
195 Clarksville Road
Princeton Junction
New Jersey 08550-503
United States of America

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:

NO/PRE/ExTR17.0004/00 NO/PRE/ExTR17.0004/01 NO/PRE/ExTR17.0004/02
NO/PRE/ExTR17.0004/03

Quality Assessment Report:

GB/FME/QAR19.0022/02

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The equipment consists of a series of ISPKxxI & ISPxxIUC sensors with a 1281 barrier/preamp interface. The barrier interface supplies the sensors with and intrinsically safe signal. The Barrier/Preamp Interface also detects AST signal from the standard AE system and sends it to the preamplifier/sensors where the sensors will generate tone bursts to send back to the AE system through the barrier. The pre-amplified can be integrated into the sensor or installed as a separate unit.

See annex for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The instructions indicate all the necessary information to ensure the installation minimizes the risk from electrostatic discharge.

Sensors with aluminium enclosures shall be installed as to protect them from ignition hazards due to impact.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Corrections in ExTR

Annex:

Annex to IECEx PRE 17.0003X issue 1.pdf

DNV Product Assurance AS
Veritasveien 3
1363 Høvik
Norway

Annex to certificate: IECEx PRE 17.0003X

Mistras 1281 Models

Barrier Interface	1281, 1281-LP	[Ex ia] IIC Ga, [Ex ia] IIIC Da -40°C≤Ta≤70°C
Sensors with integrated amplifier	ISPK3I, ISPK6I, ISPK15I, ISPK30I, ISPKWDI, ISPKF15I, ISPKF30I,ISPK50I, ISPKF50I, ISPK3I-6dB, ISPK6I-6dB, ISPK15I-6dB, ISPKF15I-6dB, ISPK30I-6dB, ISPKF30I-6dB, ISPK50I-6dB, ISPKF50I-6dB,ISPKWDI-6dB,	Ex ia IIC T6 Ga, -40°C≤Ta≤70°C Ex ia IIIC T85°C Da, -40°C≤Ta≤70°C
Sensors with integrated amplifier for use under water	ISPK3IUC, ISPK6IUC, ISPK15IUC, ISPK30IUC, ISPKWDIUC,ISPKF15IUC, ISPKF30IUC,ISPK50IUC, ISPKF50IUC, ISPK3IUC-6dB, ISPK6IUC-6dB, ISPK15IUC-6dB, ISPKF15IUC-6dB, ISPK30IUC-6dB, ISPKF30IUC-6dB, ISPK50IUC-6dB, ISPKF50IUC-6dB, ISPKWDIUC-6dB	Ex ia IIC T6 Ga, -40°C≤Ta≤70°C Ex ia IIIC T85°C Da, -40°C≤Ta≤70°C
High temperature sensors for use with external pre-amplifier	ISR6CA-HT, ISR15CA-HT, ISR30CA-HT, ISWDCA-HT, ISR3CA-HT,ISRF15CA-HT, ISRF30CA-HT,ISR50CA-HT, ISRF50CA-HT	Ex ia IIC T4-T6 Ga, -55°C≤Ta≤75°C Ex ia IIC T3 Ga, -55°C≤Ta≤150°C Ex ia IIIC T200°C Da, -55°C≤Ta≤150°C
External pre-amplifier	ISPK-3S, ISPK-6S, ISPK-15S, ISPK-30S,ISPK-WS, ISPK-3S-6dB, ISPK-6S-6dB, ISPK-15S-6dB, ISPK-30S-6dB, ISPK-WS-6dB	Ex ia IIC T6 Ga, -55°C≤Ta≤70°C Ex ia IIIC T85°C Da, -55°C≤Ta≤70°C