



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 DEK 14.0079X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2014-12-18)

Status: **Current** Issue No: 1

Date of Issue: 2020-03-16

Applicant: **KLAY INSTRUMENTS B.V.**
Nijverheidsweg 5
7991 CZ Dwingeloo
Netherlands

Equipment: **Pressure / Level Transmitter Series 2000, Series 2000-SAN, Series 2000-Cable, Series 2000-SAN-Cable, Series CER-2000, Series 2000-Hydrobar-Cable, Series 2000-Hydrobar-EXTD, Temperature Transmitter Type TT-2000 and Pressure / Level Transmitter Type Hydrobar-I-Cable.**

Optional accessory:

Type of Protection: **Ex ia, Ex ib, Ex ec**

Marking: Ex ia IIC T4 Ga
and/ or
Ex ib IIIC T100 °C Db
or
Ex ec IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2020-03-16

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:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **Klay Instruments B.V.**
Nijverheidsweg 5
7991 CZ Dwingeloo
Netherlands

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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Report:

[NL/DEK/ExTR14.0087/01](#)

Quality Assessment Report:

[NL/DEK/QAR12.0013/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressure / Level Transmitter Series 2000, Series 2000-SAN, Series 2000-Cable, Series 2000-SAN-Cable, Series CER-2000, Series 2000-Hydrobar-Cable, Series 2000-Hydrobar-EXTD, Temperature Transmitter Type TT-2000 and Pressure / Level Transmitter Type Hydrobar-I-Cable, convert a pressure, level or temperature signal from a sensor into a 4 - 20 mA current signal with a superimposed digital signal (HART protocol).

The Series 2000-Cable and Series 2000-SAN-Cable have an extension cable between the sensor and amplifier with a maximum length of 100 m. Pressure / Level Transmitter Type Hydrobar-I-Cable has a permanently connected cable, with a maximum length of 100 m.

The relation between Transmitter Type and options, EPL, ambient temperature range and process temperature range, is shown in Annex 1.

Electrical data

Refer to Annex 1

SPECIFIC CONDITIONS OF USE: YES as shown below:

As equipment with EPL Ga may be applied directly in the process, electrostatic charging of the cable and the protection cap of Models Pressure / Level Transmitter 2000-Hydrobar-Cable and Pressure / Level Transmitter Type Hydrobar-I-Cable by the flow of non-conductive media (e.g. in stirring vessels or pipes) shall be avoided.

From safety point of view all signals are connected to earth.

For ambient temperature ranges refer to Annex 1



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Updated to latest edition of the standards,
Removal Ex-nA; Assessed for Ex-ec,
Changed EPL Da to EPL Db,
Removed IEC 60079-26.

Annex:

[224395700-Annex to CoC DEK 14.0079X Iss 1.pdf](#)