



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 14.0001X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2014-03-04)

Status: **Current** Issue No: 1

Date of Issue: 2023-01-18

Applicant: **Fluidwell B.V.**
Voltaweg 23
5466 AZ Veghel
Netherlands

Equipment: **Indicator Model E-series**

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T85 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

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





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Manufacturer: **Fluidwell B.V.**
Voltaweg 23
5466 AZ Veghel
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Manufacturing
locations: **Fluidwell B.V.**
Voltaweg 23
5466 AZ Veghel
Netherlands

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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022-01](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 Report:

[NL/DEK/ExTR14.0001/01](#)

Quality Assessment Report:

[NL/DEK/QAR12.0019/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The indicator Model E-series is an indicator for flow, level, pressure and temperature measurement. The indicator consists of an electronic insert in a flameproof enclosure made of aluminium or stainless steel.

The indicators are supplied by an internal battery and/or by an external supply or by the circuit supply. Optionally, the indicators can be equipped with digital outputs, sensor supply output, communications interface and various types of sensor inputs.

Ambient temperature range aluminum enclosure: -40 °C to +70 °C.

Ambient temperature stainless steel enclosure: -40 °C to +67 °C.

The enclosure of the indicator provides a degree of protection of at least IP66/IP67 in accordance with IEC 60529.

For the Type designation refer to Annex 1 to this certificate.

Electrical data

Supply circuit: Lithium battery or 9-27 Vdc

Power dissipation: 6.1 W maximum (internal max. 4.1 W)

Relay load: max. 250 Vac / 30 Vdc, 1 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The property class of the hexagon socket head screws of process connection A (cylindrical joint) is A2-70 or better;
- The details of the flameproof joints are specified in the manufacturer's instructions;
- Electrostatic charging of the enclosure shall be avoided, see manufacturer's instructions.
- The conditions for connecting the enclosure and mounting on flowmeters are specified in the manufacturer's instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Assessment to updated standards, change of ambient temperature, change of electronics, types with feed-through are removed

Annex:

[226591500-ExTR14.0001.01-Annex1.pdf](#)

Type designation

The indicator Model E-Series models is available in a large number of configurations, represented by a configuration code. It is built up from:

- The model number to indicate the function of the unit
- Type codes to indicate the configuration, e.g. supply, inputs, outputs, communication, enclosure and options.

The product label shows the configuration code, which uses letter and digit combinations, for example:

E110-P-AH-CX-HAA-IB-OT-PX-XD-ZB-1FW

Only a small number of type codes are safety relevant options. When non-relevant options are removed, the configuration code contains enclosure (H), output configuration (O) and power supply (P):

Exxx-z-xx-xx-H__-xx-O_-P_-xx-xx

Symbol “z” and “x” represent a letter and numbers denoting different non-safety relevant options related to LV/LC signaling and software functionality.

Configuration code

A product-specific configuration code is structured as a combination of the following type codes:

Exxx - * - A_ - C_ - E_ - H__ - I_ - L_ - O_ - P_ - T_ - X_ - Z_ -xyyy

xxx	= model number representing firmware in range 000 – 9999 which does not affect approval
*	= Sensor input: A, C, P, T, X
A_	= Analog output: AH, AI, AX (not safety relevant)
C_	= Communication output: CB, CH, CH2, CR, CU, CX
E_	= Flow Equation: (firmware option, not safety relevant)
H__	= Enclosure: see detailed list below
I_	= Additional input: IA, IB, IR
L_	= Language (firmware option, not safety relevant)
O_	= Digital output: OR, OT, OX
P_	= Power requirements: PB, PD, PL, PX
T_	= Additional temperature input: TA, TP, TX
X_	= Hazardous area: XD
Z_	= Options : ZA up to and including ZZ (not safety relevant)
xyyy	= Customer specific designation

Sensor inputs

A	Analog 4-20mA input
C	Communication
P	Pulse input
T	PT100 input
X	No sensor input

Communication output

CB	RS232 communication
CH	RS485 communication, 2-wire
CH2	2x RS485 communication, 2-wire
CR	HART communication
CU	USB communication
CX	No communication

Enclosure

HAA	Aluminum enclosure with bottom entry, 1 x 1"NPT and 2 x ¾"NPT
HAB	Aluminum enclosure with bottom entry, 3 x ¾"NPT
HAC	Aluminum enclosure with bottom entry, 1 x 1"NPT and 2 x ½"NPT
HAD	Aluminum enclosure with bottom entry, 1 x ¾"NPT and 2 x ½"NPT
HAE	Aluminum enclosure with bottom entry, 1 x 1 x ¾"NPT and 2 x M20
HAF	Aluminum enclosure with bottom entry, 1 x 1"NPT and 2 x M20
HAG	Aluminum enclosure with bottom entry, 1 x M25 and 2 x M20
HAH	Aluminum enclosure with bottom entry, 3 x M25
HSA	Stainless steel enclosure with bottom entry, 1 x 1"NPT and 2 x ¾"NPT
HSB	Stainless steel enclosure with bottom entry, 3 x ¾"NPT
HSC	Stainless steel enclosure with bottom entry, 1 x 1"NPT and 2 x ½"NPT
HSD	Stainless steel enclosure with bottom entry, 1 x ¾"NPT and 2 x ½"NPT
HSE	Stainless steel enclosure with bottom entry, 1 x 1 x ¾"NPT and 2 x M20
HSF	Stainless steel enclosure with bottom entry, 1 x 1"NPT and 2 x M20
HSG	Stainless steel enclosure with bottom entry, 1 x M25 and 2 x M20
HSH	Stainless steel enclosure with bottom entry, 3 x M25
HBA	Aluminum enclosure with bottom closed, cable entry 2x ¾"NPT
HBC	Aluminum enclosure with bottom closed, cable entry 2x ½"NPT
HBE	Aluminum enclosure with bottom closed, cable entry 2x M20
HBH	Aluminum enclosure with bottom closed, cable entry 2x M25
HCA	Aluminum enclosure with bottom flange, cable entry 2x ¾"NPT
HCC	Aluminum enclosure with bottom flange, cable entry 2x ½"NPT
HCE	Aluminum enclosure with bottom flange, cable entry 2x M20
HCH	Aluminum enclosure with bottom flange, cable entry 2x M25
HTA	Stainless steel enclosure with bottom closed, cable entry 2x ¾"NPT
HTC	Stainless steel enclosure with bottom closed, cable entry 2x ½"NPT
HTE	Stainless steel enclosure with bottom closed, cable entry 2x M20
HTH	Stainless steel enclosure with bottom closed, cable entry 2x M25
HUA	Stainless steel enclosure with bottom flange, cable entry 2x ¾"NPT
HUC	Stainless steel enclosure with bottom flange, cable entry 2x ½"NPT
HUE	Stainless steel enclosure with bottom flange, cable entry 2x M20
HUH	Stainless steel enclosure with bottom flange, cable entry 2x M25
HFLC01	Body E-series RVS (316L) special FWEXD-E-S-D-4-1-1, center: 1 x ¾" NPT, left/right: 2 x M20, short cylinder
HFLC02	Body E-series ALU special FWEXD-E-A-D-4-1-1, center: 1 x ¾" NPT, left/right: 2 x M20, short cylinder
HKRN01	Body E-series ALU HKRN01 FWEXD-E-A-B-2-3-1, center: 1 x M25x1.5, left: 1/2 NPT, right: M20x1.5
HKRN02	Body E-series RVS (316L) HKRN02 FWEXD-E-S-B-2-3-1, center: 1 x M25x1,5, left: 1/2 NPT, right: M20x1,5

Additional input

IA	analog input for pressure, 4-20mA (pending)
IB	external reset input
IR	remote control inputs

Digital output

OR	mechanical relay(s) and passive transistor outputs
OT	passive transistor outputs
OX	No digital outputs

Power requirements

PB	Lithium battery powered
PD	9 - 27V DC + sensor supply
PL	input loop powered
PX	basic power input 9 - 27V DC

Additional temperature input

TA analog input for temperature, 4-20mA
TP PT100 input for temperature
TX No additional input for temperature

Hazardous area, process connection

XD Explosion proof

Customer specific designation

1XX example of customer specific designation