



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 08 ATEX 1048

Issue: 01

(4) Product: Control Box type EC2B-*****

(5) Manufacturer: IDEC Corporation

(6) Address: 6-64 Nishimiyahara 2-chome, 532-0004 Yodogawa-Ku, Osaka, Japan

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 20-19005.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 G Ex db eb IIC T6 Gb**

 **II 2 D Ex tb IIIC T80°C Db**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, March 18, 2020


Dr.-Ing. D. Markus
Direktor und Professor



sheet 1/3

EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 08 ATEX 1048 , Issue: 01**

(15) Description of Product

The Control Box Type EC2B-***** consists of an enclosure out of stainless steel, blank or coated, in the type of protection Increased Safety "eb" and Protection by Enclosure "tb". It is designed to accommodate components with operating elements, terminals as well as cable glands. All installed and attached components have been tested and certified under a separate test certificate.

Technical data

Sizes	Length	Width	Height
minimum	170 mm	110 mm	106 mm
maximum	400 mm	380 mm	106 mm

	Switches	Pilot lamp	Meter
Rated voltage	up to 600 V	up to 500 V	up to 300 V
Rated current	max. 10 A	max. 15 mA	max. 5 A
Rated wire range	max. 2.5 mm ²	max. 2.5 mm ²	max. 2.5 mm ²
Ambient temperature	max. - 20 °C to +50 °C		
Ingress protection	IP65 acc to EN 60529		

The ratings specified are maximum values, actual values will be subject to the electrical equipment used from case to case. Depending on the system conditions, the mode of operation, the utilisation category, etc., the manufacturer will define the definitive ratings which will be within the range of these limiting values and will comply with the relevant standards.

Nomenclature

EC2B-	*	*	*	*	*	*
1	2	3	4	5	6	7

- 1) Type
- 2) No. of control unit mounting holes
- 3) Set no. of control units
- 4) Material of box
- 5) Gland and Reducer
- 6) Wiring and terminal configuration
- 7) Additional letters

Note: When the Control Box has complicated specifications, type Designation of "Material of Box", "Gland and Reducer", "Wiring and Terminal configuration" are shown by the "Manufacturing No."

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 08 ATEX 1048 , Issue: 01

Important Note

The control box provided with coating must not be used in areas affected by charge-producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically dust.

Changes with respect to previous editions

- 1) New test according to EN IEC 60079-0:2018, EN 60079-1:2014; EN IEC 60079-7:2015+A1:2018 and EN 60079-31:2014.
- 2) The marking plate of Aluminum has been cancelled.

(16) Test Report PTB Ex 20-19005

(17) Specific conditions of use

None


(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, March 18, 2020


Dr.-Ing. D. Markus
Direktor und Professor

