

Translation

# EU-Type Examination Certificate

Components intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 18 ATEX E 086 U**

Product: **RTD (Resistance Temperature Detector) Soldered Version**  
type: RTD-SV and  
**RTD (Resistance Temperature Detector) Crimped Version**  
type: RTD-CV

Manufacturer: **Insta Control Private Ltd.**

Address: **No. 1-4, "G" Block, Vishnu Malati Industrial Estate, Shivane,  
Pune - 411 023, India**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of 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 Report No. BVS PP 19.2003 EU.

The Essential Health and Safety Requirements are assured in consideration of:

**EN IEC 60079-0:2018**                      **General requirements**  
**EN IEC 60079-7:2015 + A1:2018** **Increased Safety "e"**

Except in respect of those requirements listed under item 18 of the appendix.

The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex eb IIC Gb**

DEKRA Testing and Certification GmbH  
Bochum, 2019-01-16

Signed: Jörg Koch

Certifier

Signed: Dr. Franz Eickhoff

Approver

13 **Appendix**

14 **EU-Type Examination Certificate**

**BVS 18 ATEX E 086 U**

15 **Product description**

15.1 **Subject and type**

**RTD (Resistance Temperature Detector) Soldered Version type: RTD-SV and RTD (Resistance Temperature Detector) Crimped Version type: RTD-CV**

A separate order code defines the dimensions of the sensor as also wire size, number of wires, wire type and the wire length.

15.2 **Description**

RTD (Resistance Temperature Detector) Soldered Version type: RTD-SV and Crimped Version type: RTD CV is a Pt100 or Pt1000 resistance temperature detector and designed in type of protection Increased Safety "e". It is intended for the temperature measurement inside of windings of motors in type of protection Increased Safety "e".

15.3 **Parameters**

Nominal voltage	max.	24 V
Nominal current	max.	5 mA
Operating temperature	-30 °C up to +180 °C	
Rated resistance (Pt100)	100 Ohm @ 0 °C, 138.5 Ohm @ +100 °C	
Rated resistance (Pt1000)	1000 Ohm @ 0 °C, 1385.06 Ohm @ 100C	

16 **Report Number**

BVS PP 19.2003 EU, as of 2019-01-16

17 **Installation Instructions**

When embedding the sensors into a motor winding the connection, the insulation and the dielectric strength have to fulfill the requirements of type of protection Increased Safety "e" (EN 60079-7:2015+A1:2018).

During the installation of the sensor into the motor, carving and bending have to be avoided. The lead wires shall not be subjected to any pulling force.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.  
For this product is the standard EN IEC 60079-0:2018 in terms of safety equivalent to the harmonized standard EN 60079-0:2012 + A11:2013.

For this product is the standard EN IEC 60079-7:2015 + A1:2018 in terms of safety equivalent to the harmonized standard EN 60079-7:2015.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
Bochum, dated 2019-01-16  
BVS-Ld/Ar A20180536

  
\_\_\_\_\_  
Certifier

  
\_\_\_\_\_  
Approver

