

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 02ATEX2265 U** Issue Number: **2**

(4) Component: **Instrument Housing types EIH20, EIH21, EIH22 and EIH23**

(5) Manufacturer: **Cooper Industries Inc., Crouse-Hinds Division**

(6) Address: **Wolf & 7th North Streets, Syracuse, NY 13221 USA**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report no. 211176200.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2006

EN 60079-1 : 2007

(10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified component according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

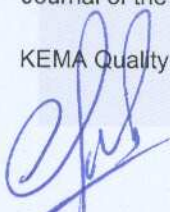
(12) The marking of the component shall include the following:



II 2 G Ex d IIB

This certificate is issued on October 17, 2008 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.



C.G. van Es
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 02ATEX2265 U** Issue No. 2

(15) **Description**

Instrument Housing types EIH20, EIH21, EIH22 and EIH23, made of aluminium. Instrument housings types EIH20 and EIH22 are provided with blind covers, instrument housings types EIH21 and EIH23 are provided with windowed covers. The model code may be followed by -1 or -2 to indicate hub size, may be followed by MF to indicate mounting feet.

Ambient temperature range -20 °C to +60 °C.

Maximum operating temperature of the glass window: 154 °C.

The enclosures provide a degree of protection IP66 according to EN 60529.

Installation instructions

The instructions provided with the housings shall be followed in detail to assure proper and safe operation.

Schedule of limitations:

- the housings can be provided with max. three ½" or ¾" NPT entry openings.
- rotating machines, or other devices which create turbulence, shall not be incorporated;
- oil-filled circuit-breakers and contactors shall not be used;
- the content of the Ex component enclosure equipment may be placed in any arrangement, provided that an area of at least 20 % of each cross-sectional area remains free to permit an unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief areas may be aggregated provided that each area has a minimum dimension in any direction of 12,5 mm.

Routine tests

None.

(16) **Report**

KEMA No. 211176200.

(17) **Special conditions for safe use**

- The number of engaged threads of the cover is at least 9,6.
- The flameproof joint between the cover and the glass window has a width of min. 15 mm and a gap of max. 0,04 mm.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 211176200.