Technology Institution of Industrial Safety

Certificate of Conformity

for Electrical Equipment used in Potentially Explosive Atmospheres

This is a translation of the Certificate of Conformity,
the original in Japanese, issued for

Name and Address of Applicant:
IDEC CORPORATION
2-6-64, NISHIMIYAHARA, YODOGAWA-KU, OSAKA 532-0004, Japan

Name and Address of Manufacturer:
IDEC CORPORATION
2-6-64, NISHIMIYAHARA, YODOGAWA-KU, OSAKA 532-0004, Japan

Equipment Title:
In-line Monitor

Type Identification:
In-line Monitor CM-IS α
Detector: CM-IS α Detection Section
Zener barrier: EB3X-EK220B
with the variants

Type of Protection:
Intrinsic safety
One detector (located in hazardous area)
One zener barrier (located in non-hazardous area)

Certificate Number:
TC22567X

Expiration Date of Validity:
December 12, 2022

Ex-Code
Ex ia IIB T3 Ga

Specific Conditions of Use:
The detector of In-line monitor has accessible metal parts. Do not rub the body and nameplate of the detector. There is a danger of ignition by electrostatic charge as capacitance is 70pF.
The detector of In-line monitor has accessible light metal parts. Do not impact or rub the body of the detector. There is a danger of ignition by impact or rub of the body of the detector.

This is to certify that the equipment has been found to comply with the current Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Date: March 03, 2020

Director of Testing Department
Minari Kogane

Executive Managing Director of TIIS
Mizuki Yamaguma

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Ratings of the In-line Monitor manufactured by IDEC CORPORATION

Standard Technical recommendations of the national institute of occupational safety and health
JNIOSH-TR-46-1 and -6: 2015

Non- intrinsically safe circuit

Maximum input voltage AC250V 50/60Hz
DC250V

Maximum inductance of external wiring in intrinsically safe circuit 0.3mH

Maximum capacitance of external wiring in intrinsically safe circuit 2μF

Ambient temperature

Detector: +5℃～+40℃

Zener barrier: −20℃～+60℃

Attached sheet to Certificate Number: TC22567X

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IEC Standards applied

The Standards promulgated by the Ministry of Health, Labour and Welfare, Japan, and applied to the cited product have been harmonized to the following IEC Standards;

IEC 60079-0 (General requirements) edition6 (2011)
IEC 60079-11 (Intrinsic safety "i") edition6 (2011)

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Attached sheet to Certificate Number: TC22567X
Expiration Date of Validity: December 12, 2022