

Member of the FM Global Group

FM Approvals
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## CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

## ISC202S - a - b / c / d. CONDUCTIVITY TRANSMITTER.

IS / I / 1 / ABCD / T4 Ta = 55°C Entity - IKE028-A10; Type 4X I / 0 / AEx ia IIC T4 Ta = 55°C Entity - IKE028-A10; Type 4X NI / I / 2 / ABCD / T4 Ta = 55°C; NIFW - IKE028-A10; Type 4X I / 2 / IIC T4 Ta = 55°C; NIFW - IKE028-A10; Type 4X

Input Entity Parameters: Ui = 31.5 V, Ii = 100 mA, Pi = 1.2 W, Ci = 22 nF, Li = 35  $\mu$ H. Field Sensor Terminals 11 through 17: Uo = 14.4 V, Io = 20 mA, Po = 71 mW, Co = 600 nF, Lo = 88 mH

Nonincendive Field Wiring Parameters for Type of Protection N: Ui = 31.5 V, Ci = 22 nF, Li = 35  $\mu$ H Field Sensor Terminals 11 through 17: Uo = 14.4 V, Io = 20 mA, Co = 2.25  $\mu$ F, Lo = 160 mH

a = Type A, N

b = Language J or E

c = Option U, PM, H, H2, SCT, AFTG, ANSI, X1

d = Other options which do not affect intrinsic safety or nonincendive

## **Equipment Ratings:**

Intrinsically Safe (Entity) for use in Class I, Division 1, Groups A, B, C and D, Class I, Zone 0, AEx ia IIC; Nonincendive for Class I, Division 2, Groups A, B, C, and D; Class I, Zone 2, Group IIC FM Approved for:

Yokogawa Electric Corporation 2-9-32 Nakacho, Musashino-shi Tokyo, 180-8750 Japan

IFM031-C02 P./



This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/NEMA 250	2003

Original Project ID: 3029857

Approval Granted: August 31, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number

Date

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Date

070918

SEPTEMBER 26,2007

FM Approvals LLC

Roger L. Allard

Assistant Vice President

SEPTEMBER 26,2007
Date

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