

FM Approvals
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

#### SC202S - a - b / c / d. CONDUCTIVITY / RESISTIVITY TRANSMITTER.

IS / I / 1 / ABCD / T4 Ta = 55°C Entity - IKE026-A10; Type 4X I / 0 / AEx ia IIC T4 Ta = 55°C Entity - IKE026-A10; Type 4X NI / I / 2 / ABCD / T4 Ta = 55°C; NIFW - IKE026-A10; Type 4X I / 2 / IIC T4 Ta = 55°C; NIFW - IKE026-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 16: Uo = 14.4 V, Io = 10 mA, Po = 35.5 mW, Co = 59.36 nF, Lo = 340 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 16: Uo = 14.4 V, Io = 10 mA, Co = 1.71  $\mu$ F, Lo = 600 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

1FM029-C02 Pa/



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: 3029866

Approval Granted: August 20, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number

Date

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Date

070904

SEPTEMBER 26,2007

FM Approvals LLC

Roger L. Allard Assistant Vice President

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