



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:

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

IS / I,II,III / 1 / ABCD / T4 Ta = 55°C; - IKE027-A10 Entity/FISCO; Type 4X

I / 0 / AEx ia / IIC / T4 Ta = 55°C; - IKE027-A10 Entity/FISCO; Type 4X

NI / 1 / 2 / ABCD / T4 Ta = 55°C; IKE027-A10; NIFW/FNICO; Type 4X

I / 2 / IIC / T4 Ta = 55°C; IKE027-A10; NIFW/FNICO; Type 4X

Input Parameters:

Entity Parameters: U_i (Vmax) = 24 V, I_i (Imax) = 250 mA, P_i = 1.2 W, C_i = 220 pF, L_i = 0

FISCO (IIC) Parameters: U_i (Vmax) = 17.5 V, I_i (Imax) = 380 mA, P_i = 5.32 W, C_i = 220 pF, L_i = 0

Nonincendive Field Wiring and FNICO Parameters: Vmax = 32 V, C_i = 220 pF, L_i = 0

Entity Parameters for Field Sensor Terminals 11 through 16:

U_o = 14.4 V, I_o = 10 mA, P_o = 35.5 mW, C_o = 59.36 nF, L_o = 340 mH

Nonincendive Field Wiring Parameters for Field Sensor Terminals 11 through 16:

U_o = 14.4 V, I_o = 10 mA, C_o = 1.71 μ F, L_o = 600 mH

a = Type P, F, B, D

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



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

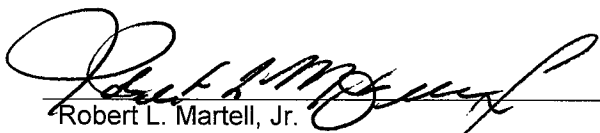
Original Project ID: 3029865

Approval Granted: *DECEMBER 12, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



Robert L. Martell, Jr.
Assistant Vice President

DECEMBER 12, 2007

Date