

# CERTIFICATE OF COMPLIANCE

# HAZARDOUS LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

## PH450G-a-b/c/d/e pH and Redox converter

NI / I / 2 / ABCD / T6; Ta = 55 °C - NFM016-A9 P.1; NIFW; Type 4X

Nonincendive field wiring parameters

Terminals Sensor Vt 11V lt

149mA

Ca 7.6µF La 2.9mH

a = Power; A: AC version (100...240VAC), D: DC version (12...24VDC)

b = Type; U: FM version

c = Mounting Hardware; UM: Universal mounting kit (panel, pipe, wall)

d = Tag Plate; SCT: Stainless steel tag plate

e = Hood; HS: Awning hood (stainless steel)

#### Special Conditions of Use:

 At Ta = +55 °C Maximum Current rating for Relay Contacts S1-S4 is 4A, At Ta = +40 °C Maximum Current rating for Relay Contacts S1-S4 is 5A

#### SC450G-a-b/c/d/e Conductivity/Resistivity converter

NI / I / 2 / ABCD / T6; Ta = 55 °C - NFM016-A9 P.1; NIFW; Type 4X

Nonincendive field wiring parameters

Terminals Sensor Vt 11V It 842mA Ca 7.6µF La 91uH

a = Power; A: AC version (100...240VAC), D: DC version (12...24VDC)

b = Type; U: FM version

c = Mounting Hardware; UM: Universal mounting kit (panel, pipe, wall)

d = Tag Plate; SCT: Stainless steel tag plate

e = Hood; HS: Awning hood (stainless steel)

#### Special Conditions of Use:

 At Ta = +55 °C Maximum Current rating for Relay Contacts S1-S4 is 4A, At Ta = +40 °C Maximum Current rating for Relay Contacts S1-S4 is 5A

NFM016-COY P.1



# ISC450G-a-b/c/d/e Inductive Conductivity converter

NI / I / 2 / ABCD / T6; Ta = 55 °C - NFM016-A9 P.1; Type 4X

a = Power; A: AC version (100...240VAC), D: DC version (12...24VDC)

b = Type; U: FM version

c = Mounting Hardware; UM: Universal mounting kit (panel, pipe, wall)

d = Tag Plate; SCT: Stainless steel tag plate

e = Hood; HS: Awning hood (stainless steel)

#### Special Conditions of Use:

1. At Ta = +55 °C Maximum Current rating for Relay Contacts S1-S4 is 4A, At Ta = +40 °C Maximum Current rating for Relay Contacts S1-S4 is 5A

## **Equipment Ratings:**

Nonincendive for use in Class I, Division 2, Groups A, B, C, and D Hazardous (Classified) Locations with nonincendive field wiring (except ISC450G), NEMA Type 4X.

## 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 3611 2004 Class 3810 2005 NEMA250 2003

Original Project ID: 3029902

Approval Granted: August 20, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number

Date

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3031000 090114 September 18, 2007 April 10, 2009

FM Approvals LLC

dim Marquedant Group Manager 0 April 2009

NFM016 - LO4 P.3