



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**Cond Ind 7100e/2H. Conductivity Transmitter.**

NI / I / 2 / ABCD / T4 Ta = 55°C; Type 2

**Cond Ind 7100e/2XH. Conductivity Transmitter.**

IS / I / 1 / ABCD / T4 Ta = 55°C - 194.320-190; Entity;

AIS / I, II, III / 1 / ABCDEFG - 194.320-190; Entity; NI / I / 2 / ABCD / T4 Ta = 55°C

I / 1 / AEx ia [ia] / IIC / T6 Ta = 55°C - 194.320-190; Entity; Type 2

Entity Parameters:

Terminals 10, 11:

V<sub>max</sub> = 30 V, I<sub>max</sub> = 100 mA, P<sub>i</sub> = 0.8 W, C<sub>i</sub> = 32.4 nF, L<sub>i</sub> = 240 μH

Terminals 7, 8:

V<sub>oc</sub> = 5 V, I<sub>sc</sub> = 3.5 mA, P<sub>o</sub> = 5 mW, C<sub>a</sub> = 100 μF, L<sub>a</sub> = 1 H.

Terminals 1, 2, 3, 4, 5, 6:

V<sub>t</sub> = 8 V, I<sub>t</sub> = 99 mA, P<sub>o</sub> = 124 mW, C<sub>a</sub> = 8.4 μF, L<sub>a</sub> = 4 mH

Terminals 1, 2, 3, 4, 5, 6, 7, 8:

V<sub>t</sub> = 8 V, I<sub>t</sub> = 102.5 mA, P<sub>o</sub> = 129 mW, C<sub>a</sub> = 8.4 μF, L<sub>a</sub> = 4 mH



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## Equipment Ratings:

### Cond Ind 7100e/2H Conductivity Transmitter

Nonincendive for use in Class I, Division 2, Groups A, B, C and D Hazardous (Classified) Indoor and Outdoor (Type 2) Locations

### Cond Ind 7100e/2XH Conductivity Transmitter

Intrinsically Safe for use in Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC; Associated Intrinsically Safe Apparatus for Connection to Class I, II and III, Division 1, Groups A, B, C, D, E, F and G and Class I, Zone 0, Group IIC when installed in accordance with Entity requirements and control drawing 194.320-190; Nonincendive for use in Class I, Division 2, Groups A, B, C and D Hazardous (Classified) Indoor and Outdoor (Type 2) Locations

## FM Approved for:

Mettler Toledo GmbH  
Im Hackacker 15  
CH-8902 Urdorf  
Switzerland



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

Class 3600	1998
Class 3610	1988
Class 3611	1986
Class 3810	1989
NEMA 250	1991

Original Project ID: 3025721

Approval Granted:

*April 16, 2006*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

*George A. Smith*  
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 George A. Smith  
 Assistant Vice President

*April 17, 2006*  
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 Date