



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:

4100/2X. O2 Transmitter.

IS / I / 1 / ABCD / T4, Ta = 55°C - 194.401-100; Entity; Type 2;
I / 0 / AEx ia / IIC / T4, Ta = 55°C - 194.401-100; Entity; Type 2
NI / I / 2 / ABCD / T4, Ta = 55°C; Type 2
AIS / I,II,III / 1 / ABCDEFG

Entity Parameters: KL10 and KL11

Ui (Vmax) = 30 V, Ii (Imax) = 100 mA, Pi = 0.8 W, Ci = 32.4nF, Li = 240µH

Entity Parameters: KL8 and KL7

Uo (Voc) = 5 V, Io (Isc) = 1 mA, Po = 2 mW

Table with 3 columns: Classification (Class I, Zone 0, Group IIC; Class I, Division 1, Groups A & B; Class I, Zone 0, Group IIB; Class I & II, Division 1, Groups C & E; Class I, Zone 0, Group IIA; Class I, II, III Division 1, Groups D, F, & G), Co (Ca) values (2,000 µF; 6,000 µF; 16,000 µF), and Lo (La) values (1 H).

Entity Parameters: KL1/2, KL4, KL5, and KL6

Uo (Voc) = 10 V, It = 10 mA, Po = 25 mW

Table with 3 columns: Classification (Class I, Zone 0, Group IIC; Class I, Division 1, Groups A & B; Class I, Zone 0, Group IIB; Class I & II, Division 1, Groups C & E; Class I, Zone 0, Group IIA; Class I, II, III Division 1, Groups D, F, & G), Co (Ca) values (3 µF; 9 µF; 24 µF), and Lo (La) values (330 mH; 1 H).

Entity Parameters: KL1/2, KL4, KL5, KL6, KL8 and KL7

Uo (Voc) = 10 V, It = 11 mA, Po = 28 mW

Table with 3 columns: Classification (Class I, Zone 0, Group IIC; Class I, Division 1, Groups A & B; Class I, Zone 0, Group IIB; Class I & II, Division 1, Groups C & E; Class I, Zone 0, Group IIA), Co (Ca) values (3 µF; 9 µF; 24 µF), and Lo (La) values (330 mH; 1 H).

Class I, II, III Division 1, Groups D, F, & G

**4100/2. O2 Transmitter.**

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

**Equipment Ratings:**

Intrinsically Safe for Class I, Zone 0, Group IIC and Class I, Division 1, Groups A, B, C, and D and has intrinsically safe connections for Class I, Zone 0, Group IIC and Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G in accordance with Entity requirements. Both the 4100/2 4100/2X O2 Transmitters are suitable for locating in Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

**Approved for:**

Mettler Toledo GmbH  
Im Hackacker 15, CH-8902 Urdorf, Switzerland



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

Class 3600	1998
Class 3610	1999
Class 3611	1999

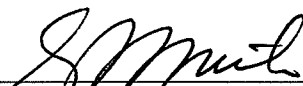
Original Project ID: 3023119

FM Approval Granted: 6/7/05

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
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FM Global Technologies LLC

  
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George A. Smith  
Assistant Vice President  
FM Approvals

6/7/05  
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Date