



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

OPTIMASS 1010C, 3010C, 7010C, 8010C, and 9010C VE104Dabcdeghijk. Mass Flowmeter.

OPTIGAS 5010C VE104Dabcdeghijk. Mass Flowmeter.

IS / I, II, III / 1 / ABCDEFG / T4 Ta = 60°C — 8.85516.56.00, Entity; Type 4X;

I / 0 / AEx ia / IIC / T4 Ta = 60°C — 8.85516.56.00, Entity; Type 4X;

NI / I / 2 / ABCD / T4 Ta = 60°C — 8.85516.56.00, NIFW; Type 4X;

S / II, III / 2 / EFG / T4 Ta = 60°C — 8.85516.56.00, NIFW; Type 4X;

Entity Parameters / Nonincendive Field Wiring Parameter:

| | V_{max}/U_i | I_{max}/I_i | P_i | C_i | L_i |
|-----------|---------------|---------------|-------|-------|-------|
| Terminals | (V) | (mA) | (mW) | (nF) | (μH) |
| + and - | 16.2 | 317 | 1280 | 35 | 10 |
| A and B | 11.8 | 34 | 90 | 35 | 10 |

a = Hazardous area approvals: 3.

b = External power supply: 0.

c = Outputs / communications: 0

d = Measuring functions: 0, A, or G.

e = Power and signal cable: 0.

f = Ex barriers: 0.

g = Output and power cable glands: 0 or 2.

h = Custody transfer approvals: not safety relevant.

i = Display: 0.

j = Operating language: – not safety relevant.

k = Manual: – not safety relevant.

Equipment Ratings:

Intrinsically Safe for use in a Class I, II, III, Division 1, Groups A, B, C, D, E, F, & G indoor/ outdoor hazardous (classified) locations and use in Class I, Zone 0, Group IIC, IIB, IIA indoor/ outdoor hazardous (classified) locations, utilizing Type 4X enclosure. The examination was based on the installation of the apparatus being installed in accordance with control drawings 8.85516.56.00. The equipment has a Temperature Class T4, Ta = 60°C.

Nonincendive for use in Class I, II, III, Division 2, Group A, B, C, D, E, F, & G hazardous (classified) locations, utilizing Type 4X enclosure with Nonincendive Field Wiring connections to Class I, II, III, Division 2, Groups A, B, C, D, E, F, & G indoor/outdoor hazardous (classified) locations. The examination was based on the installation of the apparatus being installed in accordance with control drawings 8.85516.56.00. The equipment has a Temperature Class T4, Ta = 60°C

FM Approved for:

KROHNE Ltd.
Rutherford Drive
Park Farm South
Wellingborough, United Kingdom



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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 3810 | 2005 |
| Class 3610 | 1999 |
| Class 3611 | 2004 |
| NEMA 250 | 2003 |

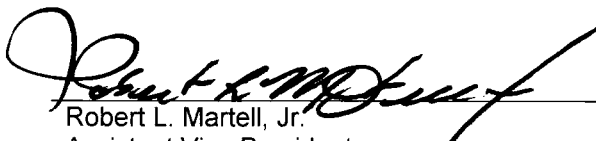
Original Project ID: 3030533

Approval Granted: *October 11, 2007*

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|------|---------------|------|
|---------------|------|---------------|------|

FM Approvals LLC


 Robert L. Martell, Jr.
 Assistant Vice President

October 11, 2007
 Date