



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

VG50-4-abcd-4-2-efghijklm. BM702 Level Radar with Horn Antenna

IS / I / ABCD / T5Ta = 55°C; I / O / AEx ia IIC / T5Ta = 55°C — ZZ8145992200; Entity;

NI / I / 2 / ABCD / T5Ta = 55°C; Type 4X

Entity Parameters:

Vmax = 30 V, Imax = 100 mA, Pi = 1.0 W, Ci = 11 nF, Li = 0

a = Antenna material: 0, 1, 2, 3, 4, 5, 6, 7, 8, A or B.

b = Connection type: 0, 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E, F, G, H, M, N, P, R, S, T, U, V, X or Y.

c = Flange/Sealing: 0, 1, 2, 3, 4, 5, 6, A, B, C, D, E, F, H, X or Y.

d = Antenna: 0, 1, 2, 3, 4, A, B, C, D, E, F, G, H, K, L, M or Y.

e = Display: 0 or 1.

f = Cable / conduit connection: 0, 2, 3, B or D.

g = Approval: A or B.

h = Sealing Surface: 0, 1, 2, 3, 5, 6, A, B or M.

i = Antenna extension: 0, 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E, F, G, H, K, L, M, N, X or Z.

j = Option: 0, 1, 5, 6, A, D M, or N.

k = Version: 0 or A.

l = Language: 1 or 2.

m = Certificate: 0, 1, 2, 3, 4, 5, A, B, C, or D.

VG51-4-ab-A-c-4-2-de. BM702 Level Radar with Wave Stick (Probe) Antenna

IS / I / ABCD / T5 Ta = 55 °C; I / O / AEx ia IIC / T5 Ta = 55 °C - ZZ8145992200; Entity;

NI / I / 2 / ABCD / T5 Ta = 55 °C; Type 4X

Entity Parameters:

Vmax = 30 V, Imax = 100 mA, Pi = 1.0 W, Ci = 11 nF, Li = 0

a = Antenna Style: 0, 1, or 2.

b = Connection Type: 0, 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E, F, G, H, K, L, M, N, R, S, T, V, W, X, Y, or Z.

c = Antenna Type/Gasket Material: 0, 1, 2, 3, 4, 5, 6, 7, A, B, D, E, F, G, H, M, N, P, R or S.

d = Display: 0 or 1.

e = Cable/Conduit Connection: 0, 2, 3, 5, B or D.



Equipment Ratings:

Intrinsically safe for Class I, Division 1, Group A, B, C and D; alternatively intrinsically safe for Class I, Zone 0, Group IIC in accordance with entity requirements when installed per Installation Drawing ZZ8145992200; nonincendive for Class I, Division 2, Group A, B, C and D Hazardous indoor/outdoor (Type 4X) locations.

Approved for:

Krohne Inc.
7 Dearborn Rd. Peabody, MA 01960 USA

and

Krohne Messtechnik GmbH & Co KG
Ludwig-Krohne-Strasse 5 D-47058 Duisburg, Germany



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

Class 3600	1998
Class 3810	1989
Class 3611	1999
Class 3610	1999
NEMA 250	1991

Original Project ID: 3008930

FM Approval Granted: June 13, 2001

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
030731	August 23, 2003		
040115	February 20, 2004		

FM Global Technologies LLC

David W. Styracula
Technical Team Manager

2/25/04
Date