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Member of the FM Global Group

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### **20a0 T b c, MV-Line Pressure and Differential Pressure Transmitter**

IS/I, II, III/1/ABCDEFGH/ T6, T4 Ta = 85 °C – A 01 M 504 V; Entity; Type 4X

I/O/AEx ia IIC/ T6, T4 Ta = 85 °C - A 01 M 504 V; FISCO

NI/II/2/ABCD/ T6, T4 Ta = 85 °C; - A 01 M 504 V

S/II, III/2/F,G/ T6 , T4 Ta = 85 °C

Entity and Nonincendive Field Wiring Parameters:

Groups A, B, C, D, E, F, and G and Group IIC:  $V_{max} = 24V$   $I_{max} = 250mA$   $P_i = 1.2W$   
 $C_i = 1nF$   $L_i = 10\mu H$

FISCO Parameters:

Groups A, B, C, D, E, F, and G and Group IIC:  $V_{max} = 17.5V$   $I_{max} = 360mA$   $P_i = 2.52W$

Groups C, D, E, F, and G and Group IIB:  $V_{max} = 17.5V$   $I_{max} = 380mA$   $P_i = 5.32W$   
 $C_i = 1nF$   $L_i = 10\mu H$

Maximum Entity, FISCO and Nonincendive Field Wiring Parameters: Supply and Sensor Terminals

$V_{oc} = 10.5 V$ ,  $I_{sc} = 1.5 mA$ ,  $C_a = 2.4\mu F$ ,  $L_a = 1H$ ,  $P_o = 4 mW$

a = 1 or 2

b = A, C, D, or G

c = Profibus-PA or Foundation Fieldbus

### **26 abcdefghijklmnopqrst [u], 2600T Pressure Transmitter.**

IS/I, II, III/1/ABCDEFGH/ T6, T4 Ta = 85 °C – A 01 M 504 V; Entity; Type 4X

I/O/AEx ia IIC/ T6, T4 Ta = 85 °C - A 01 M 504 V; FISCO

NI/II/2/ABCD/ T6, T4 Ta = 85 °C; - A 01 M 504 V

S/II, III/2/F,G/ T6, T4 Ta = 85 °C

Entity and Nonincendive Field Wiring Parameters:

Groups A, B, C, D, E, F, and G and Group IIC:  $V_{max} = 24V$   $I_{max} = 250mA$   $P_i = 1.2W$   
 $C_i = 1nF$   $L_i = 10\mu H$

FISCO Parameters:

Groups A, B, C, D, E, F, and G and Group IIC:  $V_{max} = 17.5V$   $I_{max} = 360mA$   $P_i = 2.52W$

Groups C, D, E, F, and G and Group IIB:  $V_{max} = 17.5V$   $I_{max} = 380mA$   $P_i = 5.32W$   
 $C_i = 1nF$   $L_i = 10\mu H$

Maximum Entity, FISCO and Nonincendive Field Wiring Parameters: Supply and Sensor Terminals of the FM Global Group

Voc = 10.5 V, Isc = 1.5 mA, Ca = 2.4µF, La = 1H, Po = 4 mW

a = Performance: 3, 5, 7, or 9

b = Measuring type: A, B, C, D, J, G, or V

c = Application: C, H, R, or S

d = Upper Range Limit: A, C, D, F, L, N, R, U, V or Y.

e = Static Pressure: 1, 2, 3, 4, M, Y, C, Z, T, or S

f = TR Diaphragm & Fluid: N, A, S, J, E, G, U, B, H, P, F, K, Y, V, C, M, R, D or T

g = Flange Material & Connection: A, B, C, D, E, F, G, H, L, P, Q, or R

h = Connection Material & Type: B, T, N, A, P, V, Q, U, S, E, K, W, C, F, D, Z, Y, or R

i = Connection Gasket: 5, 6, 8, or N

j = High Side: Flange, Rating Size: A, B, D, E, G, H, J, K, M, N, P, Q, R, or S

l = High Side: Flange Mat & Form: E, L, M, or N

m = High Side EXT Size and Material: 1, 2, 3, 4, 5, 6, 9, or F

n = High Side: Isolating Diaphragm: G; H; K; S; T; or Y

o = High Side: Fill Fluid: H, N, P, S, V, or W

p = Low Side Diaphragm & Fluid: N, A, S, P, F, K, Y, V, C, M, R, D, or T

q = Low Side: Flanges & Connection: A, B, C, D, E, F, G, H, L, P, Q or R

r = Bolts & Gasket: 1, 2, 3, 4, 5, 6, N, or R

s = Electronic Housing: A, B, C, D, E, G, H, J, K, L, M, N, P, R, S, T, U, V, W, Y, or Z

t = Communication: 2, 3, F, P

u = Options (One or more): A1, A2, A3, B2, B4, C1, C2, C3, C4, C5, C6, C7, E4, E6, EA, EC, F1, H1, H2, H3, L1, M1, M2, M3, M4, P1, P2, P3, P4, Q1, Q2, T1, T2, T3, T4, T5, T6, T7, T8, T9, V1, V2, V3, V4, V5, V6, V7, V8, V9.

## Equipment Ratings:

Intrinsically safe, with Entity and FISCO parameters, for use in Class I, II, III Division 1, Groups A, B, C, D, E, F, G and Class I Zone 0 Group IIC, in accordance with manufacturing's Control Drawing No. A 01 M 504 V;

nonincendive with nonincendive field wiring for Class I, II, III Division 2, Groups A, B, C, D, F, G and Class I, Zone 2, Group IIC, in accordance with manufacturing's Control Drawing No. A 01 M 504 V

special protection for Class II, Division 2, Groups F, G,

Hazardous (Classified) Indoor/Outdoor (TYPE 4X) Locations

## FM Approved for:

ABB Automation Products  
Minden, Germany

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

Class 3600	1998
Class 3610	1999
Class 3810	2005
ISA-S12.0.01	1998
ANSI/NEMA 250	1991

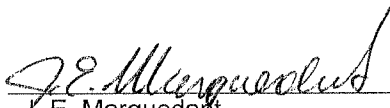
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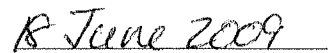
Approval Granted: October 8, 2002

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
061218	October 29, 2007		
090507	June 18, 2009		

FM Approvals LLC

  
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J. E. Marquardt  
Group Manager, Electrical

  
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Date

