



Member of the FM Global Group

FM Approvals
1151 Boston Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

I. Temperature Transmitters

STT17a-BS Temperature Transmitters.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C — 50016324; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C — 50016324; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD — 50016324; NIFW

Entity Parameters:

VMax = 30 V, IMax = 120 mA, PMax = 0.84 W, Ci = 0 µF, Li = 10 µH.

Nonincendive Field Wiring Parameters:

VMax = 35 V, Ci = 0 µF, Li = 10 µH.

a = 1 or 3.

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

STT17H-BS HART Temperature Transmitter.

IS / I / 1 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C — 50016324; Entity
I / 0 / AEx ia / IIC / T6 Ta = 60°C; T4 Ta = 85°C — 50016324; Entity
NI / I / 2 / ABCD / T6 Ta = 60°C; T4 Ta = 85°C
ANI / I / 2 / ABCD — 50016324 NIFW

Entity Parameters:

VMax = 30 V, IMax = 120 mA, PMax = 0.84 W, Ci = 0 µF, Li = 10 µH;

Vt = 9.6 V, It = 28 mA, Ca = 3.5 µF, La = 35 mH, Po = 67.2 mW.

Nonincendive Field Wiring Parameters:

VMax = 35 V, Ci = 0 µF, Li = 10 µH.

Special Condition for Use:

1. The Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

Equipment Ratings:

STT17a-BS and STT17H-BS are suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

STT17a-BS and STT17H-BS are Intrinsically safe for Class I, Division 1, Groups A, B, C and D, and for Class I, Zone 0, Group IIC hazardous (classified) locations.

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

Class 3600	1998
Class 3610	2010
Class 3611	1999
Class 3810	1989
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

II. Profibus / Fieldbus Transmitters

STT17a-BN Profibus PA/Foundation Fieldbus Transmitter

NI / I / 2 / ABCD / T* Ta = *; 50016325 NIFW; FNICO; Type 2

*see table

Nonincendive Field Wiring Parameters

Vmax = 32V Ci = 2.0nF Li = 1μH

T1..T4:	Ta ≤ +85°C
T5:	Ta ≤ +70°C
T6:	Ta ≤ +60°C

a = F or P

Special Condition for use;

1. ST17a-BN Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.

STT17a-BS Profibus PA/Foundation Fieldbus Transmitter

IS / I / 1 / ABCD / T* Ta = *; 50016325 Entity, Fisco; Type 2

I / 0 / AEx ia / IIC / T* Ta = 50016325 Entity, Fisco; Type 2

NI / I / 2 / ABCD / T* Ta = *; 50016325 NIFW; FNICO; Type 2

*see table

Barrier type:	Linear Barrier	Trapezoid Barrier	Suitable for FISCO systems	Suitable for FISCO systems
T1..T4:	Ta ≤ +85°C	Ta ≤ +75°C	Ta ≤ +85°C	Ta ≤ +85°C
T5:	Ta ≤ +70°C	Ta ≤ +65°C	Ta ≤ +60°C	Ta ≤ +60°C
T6:	Ta ≤ +60°C	Ta ≤ +45°C	Ta ≤ +45°C	Ta ≤ +45°C

Vmax or Ui	30 V	30 V	17,5 V	15 V
I _{max} or I _i	120 mA	300 mA	250 mA	900mA
P _i	0,84 W	1,3 W	2,0 W	5.32W
C _i	2,0 nF	2,0 nF	2,0 nF	2,0 nF
L _i	1 µH	1 µH	1 µH	1 µH

a = F or P

Special Condition for use;

1. The STT17a-BS Transmitter shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application

Equipment Ratings:

STT17a-BN is suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

STT17a-BS is Intrinsically safe for Class I, Division 1, Groups A, B, C, and D, and for Class I, Zone 0, Group IIC, intrinsically safe for Class I, Zone 1, Group IIC, and suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations.

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

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3810	1989
Including Supplement #1	1995
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2009

FM Approved for:
Honeywell International – Honeywell Field Solutions
Fort Washington, PA USA

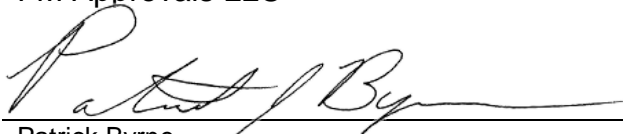
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Subsequent Revision Reports / Date Approval Amended

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3042053	March 23, 2011		

FM Approvals LLC



Patrick Byrne
Technical Team Manager

April 5, 2011
Date