



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 LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

***N4539 – 7abcdeghi Intelligent Temperature Transmitter.***

IS / I / 1 / CD / \* - Ex461-867; Entity

I / 0 / AEx ia IIB / \* - Ex461-867; Entity

NI / I / 2 / ABCD / \* - Ex461-867

Entity / Nonincendive Field Wiring Parameters:

Vmax = 30 V, Imax = 120 mA, Ci = 6.6 nF, Li = 48 µH, Pi = 1W

a = Measuring Function: 0, 1, 2, 3, 4, 5, or 9

b = Temp. Measuring Range: 0, 1, 2, 3, 4, or 9

c = WB Measuring Range: 0, 1, 2, or 9

d = Cable Entry: A, B, C, D, or Y

e = Process Connection: 0, 1, 2, 3, 4, 5, or 9

f = Number of temp. elements: A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, Q, or Y

g = Element spacing: 1, 2, 3, 4, 5, 6, or 9

h = 1 to 40m temp. probe length: A, B, or Y

i = Mounting Attachment: not safety relevant

\* = T code and maximum ambient temperature assigned per Ex461-867

***N4539 – 7abcdeghi Intelligent Temperature Transmitter.***

IS / I / 1 / CD / \* - Ex461-868; Entity

I / 0 / AEx ia IIB / \* - Ex461-868; Entity

NI / I / 2 / ABCD / \* - Ex461-868

Entity / Nonincendive Field Wiring Parameters:

Vmax = 30 V, Imax = 120 mA, Ci = 6.6 nF, Li = 48 µH, Pi = 1W

a = Measuring Function: 0, 1, 2, 3, 4, 5, or 9

b = Temp. Measuring Range: 0, 1, 2, 3, 4, or 9

c = WB Measuring Range: 0, 1, 2, or 9

d = Cable Entry: A, B, C, D, or Y

e = Process Connection: 0, 1, 2, 3, 4, 5, or 9

f = Number of temp. elements: A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, Q, or Y

g = Element spacing: 1, 2, 3, 4, 5, 6, or 9

h = 1 to 40m temp. probe length: A, B, or Y

i = Mounting Attachment: not safety relevant

\* = T code and maximum ambient temperature assigned per Ex461-868



**N4532 – 7abcd Intelligent Temperature Transmitter.**

IS / I / 1 / CD / \* - Ex461-869; Entity

I / 0 / AEx ia IIB / \* - Ex461-869; Entity

NI / I / 2 / ABCD / \* - Ex461-869

Entity / Nonincendive Field Wiring Parameters:

Vmax = 30 V, Imax = 120 mA, Ci = 6.6 nF, Li = 48 µH, Pi = 1W

a = Cable Entry: B, C, or D

b = Process Connection: 1, 2, or 9

c = Probe Length, Element #, Interval, Probe Range: 022, 032, 042, 052, 062, 072, 082, 092, 102, 112, 122, 132, 142, 152, 162, 023, 033, 043, 053, 063, 073, 083, 093, 103, 113, 123, 133, or 999

d = Mounting Attachment: A, B, C, D or F

\* = T code and maximum ambient temperature assigned per Ex461-869

**Equipment Ratings:**

Intrinsically Safe for use in Class I, Division 1, Groups C and D; Class I, Zone 0, Group IIB in accordance with Entity requirements and the applicable control drawing; Nonincendive for use in Class I, Division 2, Groups C and D Hazardous (Classified) Locations

**FM Approved for:**

Varec Inc  
5834 Peachtree Corners East  
Norcross, GA 30092,  
USA



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 3611	2004
Class 3810	2005

Original Project ID: 3031993

Approval Granted: *September 30, 2007*

Subsequent Revision Reports / Date Approval Amended

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

FM Approvals LLC

Patrick J. Byrne  
Technical Team Manager

*September 30, 2007*  
Date