



Certificate: 1091070
Project: 70093838

Master Contract: 155387
Date Issued: 2016-09-26

Temperature transmitters, Models 644H (Hart and Fieldbus), 644R (Hart), rated 42.4V dc max, 23mA, maximum operating amb. of 85°C (must be installed in a suitable enclosure). Note – 644H (Fieldbus) has a maximum a temperature code of T4.

Note – Transmitter model 644H (Hart Enhanced) provides non incendive outputs to simple apparatus when installed as per installation drawing 00644-2072

Temperature transmitter, Models 148 and 248, rated 42.4V dc max, 23mA; (certification subject to installation in suitable enclosure as determined by local inspection authority or with “Standard” (Universal Head) enclosure which is CSA accepted as Encl. Type 4X and designated with the suffix “H” or “U” or with Rosemount Connection Head enclosure which is CSA accepted as Encl. Type 4X and designated with suffix “A” or “G” or with “Buz” head connection enclosure (Non CSA rated) and designated with the suffix “B”).

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Class I Groups A, B, C and D.
Class I Groups C and D

Temperature transmitters, Models 644H (Hart and Fieldbus), 644R (Hart), rated 30V dc max, 23 mA, Intrinsically safe with ambient 60°C or 80°C with no or a T4 temperature code when connected per Rosemount Dwg 00644-1064 (For HART option) or 00644-2076 (For Fieldbus option) or Intrinsically safe with ambient 60°C, 70°C or 80°C with no or a T6, T5 or T4 temperature code when connected per Rosemount Dwg 00644-2072 (For HART Enhanced option). Model 644H may also be provided with a Type 4X enclosure.

Class I Groups A, B, C and D.
Class I Groups C and D.

Temperature transmitter, Model 148 and 248, rated 30V dc max, 23mA; maximum operating ambient -50°C to + 40°C with a Temp. Code of T6 or maximum operating ambient -50°C to + 60°C with a Temp. Code of T5, Intrinsically safe when connected per Rosemount Dwg 00148-1056 (for model 148) or 00248-1056 (for model 248), certified subject to installation in suitable enclosure as determined by local inspection authority or with “Standard” (Universal Head) enclosure which is CSA accepted as Encl. Type 4X and designated with the suffix “H” or “U” or with RosemountConnection Head enclosure which is CSA accepted as Encl. Type 4X designated with suffix “A” or “G” or with “Buz” head connection enclosure (Non CSA rated) and designated with the suffix “B”.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I Groups A, B, C and D.
Class I Groups C and D

Temperature transmitters, Models 644H (Fieldbus), rated 30V dc max, 11 mA, ambient 60°C with a T4 temperature code as referenced in I.S. installation drawings. Intrinsically safe when connected per 00644-2076.



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Certified subject to installation in suitable enclosure as determined by local inspection authority. Model 644H may also be provided with a Type 4X enclosure.

Temperature transmitters, Models 644H (Hart Enhanced) rated 30V dc max, 23 mA, Intrinsically safe with ambient 60°C, 70°C or 80°C with no or a T6, T5 or T4 temperature code when connected per Rosemount Dwg 00644-2072.

Class I, Div. 1 and 2, Groups A, B, C and D.

Wireless Transmitter Model 248 intrinsically safe when power module (battery pack) p/n 753-9220-1 is used and when installed per drawing 00249-1020, temperature code T3C, Enclosure Type 4X and IP66/IP67.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No.	0-10	-	General Requirements - Canadian Electrical Code, Part II
CSA Std C22.2 No	25-1966	-	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CSA Std C22.2 No	30-M1986	-	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No	94-M91	-	Special Purpose Enclosures
CSA Std C22.2 No	142-M1987	-	Process Control Equipment
CAN/CSA-C22.2 No	157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Std C22.2 No	213-M1987	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
C22.2 No	60529-05	-	Degrees of protection provided by enclosures (IP Code)



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70093838	2016-09-26	Updated to report 1091070 to add drawing 00644-7506 and 01111-1401, remove obsolete drawings 00248-1502, 00644-7502, 00248-1401, 00644-6199 and include minor, non-safety impacting drawings update. Updated the marking (1)-(7) in the marking section of the report. List of test reports moved to the test history section.
2699231	2014-05-28	Update of Report 1091070 to include alternate explosion-proof enclosure, based on acceptance of Category Program Test Results.
2584464	2013-01-25	Update to Report 1091070 to include alternate explosion-proof enclosure, accepting category results.
2495410	2012-08-31	Update of report 1091070 to include evaluation of the 644H enhanced version of the transmitter and to cover updating and correcting report to latest version/edition.
2302195	2010-08-20	Update of report to include I.S. evaluation of wireless model 248.
2075924	2008-10-14	Alternate construction of model 644 (Fieldbus) to include use of "Hornet" chip and re-stacked A/D pc board
1991247	2008-03-04	Certification of Temperature Transmitter model 148 and minor report updates (replacement of drawings with latest revision)
1938483	2007-08-21	Alternate construction of 248 electronic pcb 00248-1102
1804176	2006-07-04	Rosemount Model 644H Hart and Fieldbus miscellaneous drawing updates
1796689	2006-05-31	Alternate construction to include hart clips and report update to cover latest edition of drawings
1749635	2006-01-20	Update Report to cover submittal Package of AD589 and Optocoupler Update, Legacy File LR 33332
1721085	2005-12-09	AD589 Replacement and Optocoupler Update for 644 Hart Temperature Transmitter Legacy File 33332
1647602	2005-04-20	Certification of Rosemount 248 Railmount Temperature Transmitter and minor report updates and alterations for 644 Hart and Fieldbus.
1636231	2005-02-08	Addition of stainless steel enclosure temperature transmitter and miscellaneous Dwg. changes



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1592924	2004-10-25	Design Change to Rosemount Temperature Transmitter and Miscellaneous Dwg. Changes
1542345	2004-06-14	Update Report to Cover Use of Enc. Option A and DIN Style Sensors
1529916	2004-03-11	Alternate Construction to Cover Alternative Transformer for model 248 and 644 (Fieldbus)
1467098	2003-12-10	Update report to cover optional use of "Rosemount" Connection Head and "Buz" Enclosures and update report with drawing revisions.
1467511	2003-11-20	Certification of 644H Fieldbus Temperature Transmitter

History:

1409243	2003-02-28	Update to Report 1091070 to cover Certification of Transmitter Model 248/
1372910	2002-10-25	Update to Report 1091070 to cover Citadel update to Model 644/244E transmitters.
1193946	2001-06-11	Update of Report 1091070 on 644/244 to cover revised electronics and addition of Model 144H.
1100983	2000-10-27	Update to Report 10910970 to include I.S., re new electronics.
1091070	2000-08-15	Supersedes Report LR 33332-244: (644 and 244E I.S. and EXP temperature transmitters.) - To add new Group B housing and revised electronics.
-267	1997-04-09	Update of Report LR 33332-244 on 644/244E to include electrical and mechanical changes.
-244	1996-02-19	Supersedes by Report 1091070.644 and 244E I.S. and EXP temperature transmitters.