

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM17US0225X
3. **Equipment:** R*L2-***, R*L2-0***, R*T2-0**, R*T2-00**, S*R*L2-***, S*R*L2-0***, S*R*T2*0**, and S*R*T2-00** IntelliPoint RF Transmitter with Integral and Remote Sensor
(Type Reference and Name)
4. **Name of Listing Company:** AMETEK Drexelbrook
5. **Address of Listing Company:** 205 Keith Valley Road
Horsham, PA 19044
USA
6. The examination and test results are recorded in confidential report number:
3012481 dated 1st February 2002
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2018, FM Class 3610:2018, FM Class 3611:2018, FM Class 3615:2018,
FM Class 3810:2018, ANSI/UL 121201:2017, ANSI/NEMA 250:1991, ANSI/IEC 60529:2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

Certificate issued by:


J.E. Marquedant
VP, Manager - Electrical Systems

10 March 2020
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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10. Equipment Ratings:

Explosionproof for use in Class I, Division 1, Groups A, B, C and D; Dust-Ignitionproof for use in Class II and III, Division 1, Groups E, F and G; Nonincendive for use in Class I, Division 2, Groups A, B, C and D; Suitable for use in Class II and III, Division 2, Groups F and G Hazardous (Classified) Indoor and Outdoor (Type 4, 4X, IP66) Locations with Intrinsically Safe connections to Class I, II and III, Division 1, Groups A, B, C, D, E, F and G Hazardous (Classified) Locations in accordance with Control Drawing 420-0004-144-CD for the RxLx Series and Control Drawing 420-0004-173-CD for the RxTx and SxRx Series; Intrinsically Safe for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G Hazardous (Classified) Locations in accordance with entity requirements and control drawing 420-0004-173-CD.

11. The marking of the equipment shall include:

IntelliPoint Transmitter with Remote Sensor, IntelliPoint Transmitter with Integral Sensor, SIL IntelliPoint Transmitter with Remote Sensor, and SIL IntelliPoint Transmitter with Integral Sensor
XP WITH IS SENSING ELEMENT FOR CL I, DIV 1, GP B, C, D, DIP FOR CL II, DIV 1, GP E, F, G, AND CL III, DIV 1, SUITABLE FOR CL I, II, III, DIV 2 GP A, B, C, D, E, F, G WITH IS SENSING ELEMENT FOR CL I, II, III, DIV 1, GP A-G
T5 @ +176°F/+70°C MAX. AMB. INSTALL PER 420-0004-144-CD

IntelliPoint Two-Wire Transmitter with Remote Sensor, IntelliPoint Two-Wire Transmitter with Integral Sensor, SIL IntelliPoint Two-Wire Transmitter with Remote Sensor and SIL IntelliPoint Two-Wire Transmitter with Integral Sensor
XP FOR CL I, DIV 1, GP B, C, D, DIP FOR CL II, DIV 1, GP E, F, G, AND CL III, DIV 1, SUITABLE FOR CL I, II, III, DIV 2 GP A, B, C, D, E, F, G IS APPROVED FOR CL I, II, III, DIV 1, GP A-G
T5 @ +176°F/+70°C MAX. AMB. INSTALL PER 420-0004-173-CD

700-a, IntelliPoint Sensors.
IS APPROVED FOR CL I, II, III, DIV 1, GP A-G
T5 @ +176°F/+70°C MAX. AMB.

12. Description of Equipment:

General - The Intellipoint RF Point Level System consists of a Model RNL3 series transmitter, a 700 series level sensor and a 380 series connecting cable used for the remote version of the probe. The system using the remote sensor may also include an RF filter (401-0016-024). The transmitter provides intrinsically safe outputs to the sensing elements. It converts a capacitive level measurement into a relay contact signal.

Construction - The Intellipoint RF Point Level System consists of a dual-compartment electronics housing with thread-on window cover and either an intergaral or remote probe assembly.

Ratings - The Intellipoint RF Point Level System operates at 21-100 Vdc, 85-250 Vac (2W) or 13-30 Vdc (1W). The transmitters and probes are rated for use in an ambient temperature range of -25°C to +70°C.

Model Codes:

RaLb-cdef, IntelliPoint Transmitter with Remote Sensor.

a = Calibration: N, M, H, G, L, T, V or P

b = Seal Option; 3, 7, or B

c = Cable length: 1 - 9, A - K

d = Relays: 1 or 2

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e, f = Sensing Elements: 00, 02 – 04, 06, 07, 09 – 22, 24 – 28, 31 – 40, 50 – 53, 55, 60 – 62, 64, 66, 67, 72, 73, 80 – 83, 85, 90 – 94, NN, or ZZ.

RaLb-0cde. IntelliPoint Transmitter with Integral Sensor.

a = Calibration: N, M, H, G, L, T, V or P

b = Seal Option: 3, 7, or B

c = Relays: 1 or 2

d, e = Sensing Elements: 00, 02 – 04, 06, 07, 09, 11 – 19, 21, 22, 24, 25, 28, 67, 72, 73, 86, 87, 90 – 93, NN, or ZZ

*Sensors are Intrinsically Safe for Class I, II, III, Division 1, Groups A-G.

RaTb-c0de. IntelliPoint RF Two-Wire Level Transmitter with Remote Sensor

a = Calibration: N, M, H, G, L, T, V, or P

b = Seal Option: 3, 7, or B

c = Cable Length: 1 - 9, A - K

d, e = Sensing Element: 00, 02, 03, 04, 06, 07, 09 - 22, 24, 25 – 28, 31 – 40, 50 – 53, 55, 60 – 62, 64, 66, 67, 72, 73, 80 – 83, 85, 90 – 94, NN, or ZZ.

Entity Parameters:

Vmax = 30V, Imax = 140 mA, Pi = 1 W, Ci = 0, Li = 145 µH

RaTb-00cd. IntelliPoint RF Two-Wire Level Transmitter with Integral Sensor

a = Calibration N, M, H, G, L, T, V, P or R

b = Seal Option; 3, 7, B

c, d = Sensing element: 00, 02 - 04, 06, 07, 09, 11 - 19, 21, 22, 24, 25, 28, 67, 72, 73, 86, 87, 90 – 93, NN, or ZZ.

*Sensors are Intrinsically Safe for Class I, II, III, Division 1, Groups A-G

Entity Parameters:

Vmax = 30V, Imax = 140 mA, Pi = 1 W, Ci = 0, Li = 145 µH

SaRbLc-defg. SIL IntelliPoint Transmitter with Remote Sensor.

a = SIL Level: SIL evaluation not performed by FM Approvals

b = Calibration: N, H, L, T, V or P

c = Seal Option; 3, 7, or B

d = Cable length: 1 - 9, A - K

e = Relays: 1 or 2

f, g = Sensing Elements: 00, 02, 04, 06, 07, 09, 11 – 21, 24 – 28, 60 – 62, 64, 66, 67, 72, 73, 85, 90 – 94.

SaRbLc-0def. SIL IntelliPoint Transmitter with Integral Sensor.

a = SIL Level: SIL evaluation not performed by FM Approvals

b = Calibration: N, H, L, T, V or P

c = Seal Option: 3, 7, or B

d = Relays: 1 or 2

e, f = Sensing Elements: 00, 02, 04, 06, 07, 09, 11 – 19, 21, 24, 25, 28, 67, 72, 73, 86, 87, 90 – 93.

*Sensors are Intrinsically Safe for Class I, II, III, Division 1, Groups A-G.

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SaRbTcd0ef. SIL IntelliPoint Two-Wire Transmitter with Remote Sensor.

- a = SIL Level: SIL evaluation not performed by FM Approvals
- b = Calibration: N, H, L, T, V, or P.
- c = Seal Option: 3, 7, or B.
- d = Cable Length: 1 - 9, A - K.
- e, f = Sensing Element: 00, 02, 04, 06, 07, 09, 11 - 21, 24 - 28, 60 - 62, 64, 66, 67, 72, 73, 85, 90 - 94.

Entity Parameters:

Vmax = 30V, Imax = 140 mA, Pi = 1 W, Ci = 0, Li = 145 µH

SaRbTc-00de. SIL IntelliPoint Two-Wire Transmitter with Integral Sensor

- a = SIL Level: SIL evaluation not performed by FM Approvals
 - b = Calibration: N, H, L, T, V, or P.
 - c = Seal Option: 3, 7, or B.
 - d, e = Sensing Element: 00, 02, 04, 06, 07, 09, 11 - 19, 21, 24, 25, 28, 67, 72, 73, 86, 87, 90 - 93.
- *Sensors are Intrinsically Safe for Class I, II, III, Division 1, Groups A-G

Entity Parameters:

Vmax = 30V, Imax = 140 mA, Pi = 1 W, Ci = 0, Li = 145 µH

700-a, IntelliPoint Sensors.

- a = Any 7 digit numeric combination maintaining the limits of 420-0004-144-CD or 420-0004-173-CD.

13. Specific Conditions of Use:

IntelliPoint Transmitter with Remote Sensor, IntelliPoint Transmitter with Integral Sensor, SIL IntelliPoint Transmitter with Remote Sensor, and SIL IntelliPoint Transmitter with Integral Sensor

1. The equipment shall not be applied in an explosive dust atmosphere where high electrostatic charging processes are present that could result in propagating brush discharges. See IEC TS60079-32-1 for additional guidance.
2. Consult the manufacturer if dimensional information on the flameproof joints is necessary.

IntelliPoint Two-Wire Transmitter with Remote Sensor, IntelliPoint Two-Wire Transmitter with Integral Sensor, SIL IntelliPoint Two-Wire Transmitter with Remote Sensor and SIL IntelliPoint Two-Wire Transmitter with Integral Sensor

1. The enclosure contains aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
2. The equipment shall not be applied in an explosive dust atmosphere where high electrostatic charging processes are present that could result in propagating brush discharges. See IEC TS60079-32-1 for additional guidance.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
1 st February 2002	Original Issue.
9 th July 2017	<u>Supplement 13:</u> Report Reference: – RR210041 Dated 9 th July 2017. Description of the Change: Minor changes to circuitry and certificate updated to new format.
7 th February 2018	<u>Supplement 14:</u> Report Reference: – RR212335 Dated 7 th February 2018. Description of the Change: Adding SIL versions of line powered versions, adding additional sensors.
30 th July 2018	<u>Supplement 15:</u> Report Reference: – RR214288 Dated 30 th July, 2018. Description of the Change: Added specific conditions of use for the equipment.
30 th July 2019	<u>Supplement 18:</u> Report Reference: – RR219205 Dated 30 th July 2019. Description of the Change: Sensing element 67 added.
10 th March 2020	<u>Supplement 17:</u> Report Reference: – RR222602 Dated 10 th March 2020. Description of the Change: Re-examine equipment to latest Nonincendive standard.

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