EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(INTEGRAL PROBE)
CLASS I DIVISION 1 GROUP B (SENSING ELEMENTS
ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS. SEE SHEETS 8 AND 9 FOR MODEL NUMBERS).

EXPLOSIONPROOF AND FLAMEPROOF ENCLOSURE

18” MAX
(457 mm)

SENSING ELEMENT

FLANGE OR
THREADED MOUNTING

CONDUIT SEAL

CONDUIT SEAL

INPUT VOLTAGE
21-100 VDC
85-250 VAC
DC-400 Hz, 2W
TERMINALS 1-2

RELAY
CONNECTIONS
30VDC OR 250 VAC
(MAXIMUM)
TERMINALS 3-8

EQUIPMENT MUST NOT USE OR
GENERATE MORE THAN 250 VAC.

MODEL NUMBERING SYSTEM FOR FM APPROVED SYSTEMS - SEE SHEETS 8 AND 9

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
2. THE INSTALLATION MUST BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE® ANSI/NFPA 70.
3. CABLE FITTINGS SUPPLIED ARE "WEATHER RESISTANT". THEY ARE NOT CERTIFIED AS "EXPLOSIONPROOF" (XP) OR "FLAMEPROOF" (d).
4. UNLESS THEY ARE MARKED, REPLACE WITH APPROPRIATE SEAL FITTINGS AS REQUIRED.
5. USE SUPPLY WIRING RATED FOR 90°C OR HIGHER WHEN AMBIENT IS ABOVE 50°C.
6. USE COPPER WIRING ONLY.
7. ASSOCIATED APPARATUS MUST NOT GENERATE MORE THAN 250 VOLTS.
8. NO REVISIONS TO THIS DRAWING WITHOUT FM APPROVAL.
9. UNUSED OPENINGS MUST BE PROPERLY SEALED TO MAINTAIN ENCLOSURE ENVIRONMENTAL AND/OR HAZARDOUS LOCATION RATINGS.
EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(INTEGRAL PROBE)

HAZARDOUS (CLASSIFIED) AREA

CLASS I DIVISION 1 GROUPS C-D, CLASS II GROUPS E-G, CLASS III (SENSING ELEMENTS ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS. SEE SHEETS 8 AND 9 FOR MODEL NUMBERS).

NON-HAZARDOUS AREA

INPUT VOLTAGE
21-100 VDC
85-250 VAC
DC-400 Hz, 2W TERMINALS 1-2

RELAY CONNECTIONS
30VDC OR 250 VAC (MAXIMUM) TERMINALS 3-8

EQUIPMENT MUST NOT USE OR GENERATE MORE THAN 250 VAC.

MODEL NUMBERING SYSTEM FOR FM APPROVED SYSTEMS – SEE SHEETS 8 AND 9

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
2. THE INSTALLATION MUST BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE® ANSI/NFPA 70.
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6. ASSOCIATED APPARATUS MUST NOT GENERATE MORE THAN 250 VOLTS.
7. NO REVISIONS TO THIS DRAWING WITHOUT FM APPROVAL.
8. UNUSED OPENINGS MUST BE PROPERLY SEALED TO MAINTAIN ENCLOSURE ENVIRONMENTAL AND OR HAZARDOUS LOCATION RATINGS.
EXPLOSIONPROOF TRANSMITTER ENCLOSURE
HAZARDOUS (CLASSIFIED) AREA
CLASS I, DIVISION 2, GROUPS B-D, CLASS II, GROUPS E-G, CLASS III (SENSING ELEMENTS ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS. SEE SHEETS 8 AND 9 FOR MODEL NUMBERS).

INPUT VOLTAGE
21-100 VDC
85-250 VAC
DC-400 Hz, 2W TERMINALS 1-2
RELAY CONNECTIONS
30VDC OR 250 VAC (MAXIMUM) TERMINALS 3-8
EQUIPMENT MUST NOT USE OR GENERATE MORE THAN 250 VAC.

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
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EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(REMOTE PROBE)
CLASS I DIVISION 1 GROUP A (SENSING ELEMENTS
ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS.
SEE SHEETS 10 AND 11 FOR MODEL NUMBERS).

380 SERIES CABLE
150 FT. (46 METERS) MAX.
NOTE: INTRINSICALLY SAFE

SENSING ELEMENT CONNECTIONS
(INTRINSICALLY SAFE)

EXPLOSIONPROOF AND FLAMEPROOF
ENCLOSURE

2" MAX
(50 mm)

SOML NUMBERING SYSTEM FOR FM APPROVED SYSTEMS - SEE SHEETS 10 AND 11

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
2. THE INSTALLATION MUST BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE® ANSI/NFPA 70.
3. CABLE FITTINGS SUPPLIED ARE "WEATHER RESISTANT," THEY ARE NOT CERTIFIED AS "EXPLOSIONPROOF" (XP) OR "FLAMEPROOF" (d)
UNLESS THEY ARE MARKED, REPLACE WITH APPROPRIATE SEAL FITTINGS AS REQUIRED.
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EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(REMOTE PROBE)

HAZARDOUS (CLASSIFIED) AREA

CLASS I DIVISION 1 GROUP B (SENSING ELEMENTS ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS. SEE SHEETS 10 AND 11 FOR MODEL NUMBERS).

NON-HAZARDOUS AREA

MODEL NUMBERING SYSTEM FOR FM APPROVED SYSTEMS - SEE SHEETS 10 AND 11

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
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EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(REMOTE PROBE)

HAZARDOUS (CLASSIFIED) AREA

NON-HAZARDOUS AREA

INPUT VOLTAGE
21-100 VDC
85-250 VAC
DC-400 Hz, 2W
TERMINALS 1-2

RELAY CONNECTIONS
30VDC OR 250 VAC
(MAXIMUM)
TERMINALS 3-8

MODEL NUMBERING SYSTEM FOR FM APPROVED SYSTEMS - SEE SHEETS 10 AND 11

NOTES:
1. INSTALLATION IN CANADA MUST BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE (C22.1) AS APPLICABLE.
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7. NO REVISIONS TO THIS DRAWING WITHOUT FM APPROVAL.
8. UNUSED OPENINGS MUST BE PROPERLY SEALED TO MAINTAIN ENCLOSURE ENVIRONMENTAL AND/OR HAZARDOUS LOCATION RATINGS.

CERTIFIED by ________________

PO # ________________

END USER ________________

DE # ________________

ISS EDD/DSR NO APP'D DATE OK.
EXPLOSIONPROOF TRANSMITTER ENCLOSURE
WITH INTRINSICALLY SAFE OUTPUT
(REMOTE PROBE)

HAZARDOUS (CLASSIFIED) AREA

CLASS I DIVISION 2 GROUPS A-D, CLASS II GROUPS F,G, CLASS III (SENSING ELEMENTS
ARE INTRINSICALLY SAFE FOR ABOVE CLASSIFICATIONS. SEE SHEETS 10 AND 11 FOR MODEL
NUMBERS).

FITTINGS (WEATHER RESISTANT)

SENSING ELEMENT CONNECTIONS (INTRINSICALLY SAFE)

EXPLOSIONPROOF AND FLAMEPROOF
ENCLOSURE

380 SERIES CABLE
150 FT. (46 METERS) MAX.
NOTE: INTRINSICALLY SAFE

SENSING ELEMENT

EQUIPMENT MUST NOT USE OR
GENERATE MORE THAN 250 VAC.

CONDUIT

CONDUIT SEAL

INPUT VOLTAGE
21-200 VDC
85-250 VAC
DC-400 Hz, 2W
TERMINALS 1-2

RELAY CONNECTIONS
30 VDC OR 250 VAC
(MAXIMUM)
TERMINALS 3-8

FM/FMc CONTROL DRAWING
FOR INTELLIPOINT SERIES
DIVISION 2 (REMOTE)

AMETEK
DREXELBROOK

CERTIFIED
by
11 8-10-108

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AMETEK DREXELBROOK

PD #
10 8-10-108 NOT RELEASED

ENG
9 1-09-104 SCA 1-16-09

SCALE NONE

USER
8 5-07-113 ThP 5-14-07

DR. JJS 1-13-11

DE #
7 1-06-216 ThP 2-22-07

ISS. EDD/DSR NO. APP'D DATE OK.

200 KEITH VALLEY RD
HERSHEY, PA 17033-9086
215-674-1234
215-674-2733
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<td>a = OPTIONS</td>
<td>N = NO-CAL (STD)</td>
<td>M = MANUAL SET POINT ADJUSTMENT</td>
<td>H = HI SENSITIVITY</td>
<td>G = HI SENSITIVITY MANUAL SET POINT ADJUSTMENT</td>
<td>L = STANDARD AUTO CAL</td>
<td>T = 10pF AUTO CAL</td>
<td>V = 10pF FIXED</td>
<td>P = HI SENSITIVITY 5pF FIXED</td>
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<td>7 = DUAL SEAL</td>
<td>B = DUAL SEAL</td>
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<td>e = 0-4, 6-9, Z SENSING ELEMENTS</td>
<td>SENSING ELEMENTS</td>
<td>0 0</td>
<td>700-1202-021</td>
<td>1</td>
<td>700-1202-022</td>
<td>2</td>
<td>700-1202-024</td>
<td>3</td>
</tr>
<tr>
<td>f</td>
<td>f = A-F, G, H, J, K, L OR Z</td>
<td>INSERTION LENGTH/CONE SHIELD LENGTH</td>
<td>A = 6&quot;/2&quot; &amp; 152.4mm/50.8mm</td>
<td>B = 12&quot;/2&quot; &amp; 304.8mm/50.8mm</td>
<td>C = 12&quot;/3.5&quot; &amp; 304.8mm/88.9mm</td>
<td>D = 18&quot;/2&quot; &amp; 457.2mm/50.8mm</td>
<td>E = 18&quot;/3.5&quot; &amp; 457.2mm/88.9mm</td>
<td>F = 18&quot;/10&quot; &amp; 457.2mm/254mm</td>
<td>G = 18&quot;/NO CSL &amp; 457.2mm/NO CSL</td>
<td>H = 36&quot;/10&quot; &amp; 914.4mm/254mm</td>
<td>J = 36&quot;/NO CSL &amp; 914.4mm/NO CSL</td>
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**Notes:**
- Retrofit Kit 285-0001-671
- See Sheet 9 for a list of other approved integral sensing elements

**Certification:**
- PO # 
- END USER 
- CERTIFIED by 

**Revised Date:**
- 8-10-108
- 10-10-108
- 1-09-104
- 5-07-113
- 205 Keith Valley Rd
- Horsham, PA 19044-5686
- 215-674-1234
- 215-674-2733
- 420-0004-144-CD

**Rev:** 5

**Issue:** 8 of 11
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</tbody>
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### Notes
- Columns 9 and up do not affect safety.
MODEL NUMBERS OF APPROVED REMOTE SENSING ELEMENTS

701-mnop-qrs-t LEVEL PROBE

l = FAMILY NO. 0, 4
m = FAMILY NO. 0 THROUGH 9, BLANK
n = FAMILY NO. 0 THROUGH 9, BLANK
o = 0 THROUGH 9, BLANK
p = 0 THROUGH 9
q = FAMILY NO. 0 THROUGH 9, BLANK
r = FAMILY NO. 0 THROUGH 9, BLANK
s = FAMILY NO. 0 THROUGH 9
t = 14 CHARACTER EXPANDED NUMBERING SYSTEM, DOES NOT AFFECT SAFETY