Rosemount 8700 NEPSI Zone-1 Code EN – Approval Document





Rosemount 8705-W and 8711-R/U Magnetic Flowmeter

Order Code	8732EM Transmitter Rating	8705-W and 8711-R/U Flowtube Rating	Region	Agency	Certification Number	
EN	NEPSI Flameproof with Increased Safety	NEPSI Increased Safety with Intrinsically Safe Electrodes	China	NEPSI	GYJ17.1493X GYJ15.1180X	

Approval Markings and Logos

Symbol	Marking or Symbol Name	Region	Meaning of Marking or Symbol					
Ex NEPSI	NEPSI	China	Compliance with all of the applicable technical regulations of China.					

Certifications

NEPSI

8732EM Transmitter

0/32LW Transmitter

For Intrinsically Safe (IS) 4-20mA and Pulse Outputs on the 8732EM, output code "B" must be selected.

For Intrinsically Safe (IS) Fieldbus Outputs on the 8732EM, output code "F" must be selected. For Intrinsically Safe (IS) Profibus Outputs on the 8732EM, output code "P" must be selected.

EX d e [ia Ga] IIC T3~T6 Gb Ex d [ia Ga] IIC T3~T6 Gb [Ex ia Ga] IIC -40°C ≤ Ta ≤ 60°C Enclosure Type 4X, IP66

Enclosure Type 4X, IP66 Install per drawing 08732-2063

Special Conditions for Safe Use (X):

- 1. Units marked with "Warning: Electrostatic Charging Hazard" may either use non-conductive paint thicker than 0.2 mm or non-metallic labeling. Precautions shall be taken to avoid ignition due to electrostatic charge on the enclosure.
- 2. The intrinsically safe outputs cannot withstand the 500V isolation test due to integral transient protection. This must be taken into consideration upon installation.
- 3. Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- 4. Unused conduit entries must use either used the Rosemount-supplied blanking plugs, or blanking plugs certified in accordance with the protection type.

8705-W and 8711-R/U Flowtube

Note: When used in hazardous (classified) locations:

The 8705-W and 8711-R/U may only be used with a certified 8732EM transmitter.

EN Ex e ib IIC T3~T6 Gb

-29°C ≤ Ta ≤ 60°C

Enclosure Type 4X, IP66/68 (IP68 remote mount only)

Install per drawing 08732-2063

Special Conditions for Safe Use (X):

- 1. Units marked with "Warning: Electrostatic Charging Hazard" may either use non-conductive paint thicker than 0.2 mm or non-metallic labeling. Precautions shall be taken to avoid ignition due to electrostatic charge on the enclosure.
- 2. If used with flammable process fluid, the electrode circuit must be installed as intrinsically safe (Ex ia).
- 3. Conduit entries must be installed to maintain a minimum enclosure ingress rating of IP66.
- 4. Unused conduit entries must use either used the Rosemount-supplied blanking plugs, or blanking plugs certified in accordance with the protection type.

HAZARDOUS (Ex) LOCATION CONTROL AND INSTALLATION DRAWING MODEL 8732EM MAGNETIC FLOWTUBE TRANSMITTER MODEL 8705-W AND 8711-R/U MAGNETIC FLOWTUBES

REVISION TABLE									
REVISION	ECO NO.	ECO NO. APP'D							
AC	1126471	S.D.	9/9/19						
DESCRIPTION									
UPDATE NOTES									

ADD I.S. FIELDBUS AND PROFIBUS OUTPUTS ADD 8711 SMALL LINE SIZE PROCESS TEMP INFO 12

	TABLE OF CONTENTS						
PAGE TITLE							
2	GAS ENVIRONMENT - EPL Gb SENSOR WITH ALLOWED INTEGRAL MOUNT EPL Gb TRANSMITTERS						
3	GAS ENVIRONMENT - EPL Gb SENSOR WITH ALLOWED REMOTE MOUNT EPL Gb TRANSMITTERS						
4	GAS ENVIRONMENT - EPL Gb SENSOR TEMPERATURE CODE VS. PROCESS TEMPERATURE						
5	GAS ENVIRONMENT - 8732EM OUTPUT WIRING						

WARNING: EXPLOSION HAZARD - PRODUCT INSTALLATION SHALL COMPLY WITH INFORMATION AS STATED IN THIS DOCUMENT. 1.\WIRING METHOD SUITABLE FOR APPROPRIATE ZONE AND PROTECTION TYPE. /2.\ TRANSMITTER MUST NOT BE CONNECTED TO EQUIPMENT GENERATING MORE THAN 250V. COMPONENTS REQUIRED TO HAVE HAZARDOUS (Ex) LOCATION APPROVAL MUST BE APPROVED FOR THE GAS GROUP APPROPRIATE TO AREA CLASSIFICATION. SEAL APPROVED FOR USE IN APPROPRIATE ZONE AND GAS GROUP. THE INTRINSICALLY SAFE 4-20mA AND DIGITAL OUTPUTS MUST USE TWISTED PAIR WITH AN INDIVIDUAL SHIELD FOR THE PAIR. IT IS ALSO RECOMMENDED TO USE SHIELDED TWISTED PAIR FOR THE PULSE OUTPUT. INSTALLATION SHOULD BE IN ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODE, EN 60079-14 OR IEC 60079-14 "ELECTRICAL INSTALLATIONS DESIGN, SELECTION, AND ERECTION".

> CONFIDENTIAL AND PROPRIETARY SURFACE FINISH UNLESS OTHERWISE SPECIFIED 3RD ANGLE INFORMATION IS CONTAINED HEREIN AND MUST BE HANDLED ACCORDINGLY UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES [mm]. REMOVE ALL BURRS AND SHARP EDGES. -DEC TOLERANCES-.X ± .1 [2,5] .XX \pm .02 [0,5]

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FRACTIONS

1/32

ROSEMOUNT EMERSON.

INSTALLATION DRAWING

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REV

AC

NEPSI HAZARDOUS (Ex) LOCATIONS

N. BOND 11/21/17 DRAWING NO. 08732-2063 APP'D SHEET 1 OF 5 DO NOT SCALE PRINT | CAD MAINTAINED, (PRO/E) | PRODUCT CODE DOC TYPE

13. CONDUIT ENTIRES MARKED "M20" ARE M20 X 1.5 THREAD FORM.

PROTECTION. THIS MUST BE TAKEN INTO ACCOUNT UPON INSTALLATION.

CONCEPTS AND INSTALLATION REQUIREMENTS WITHIN THIS DOCUMENT.

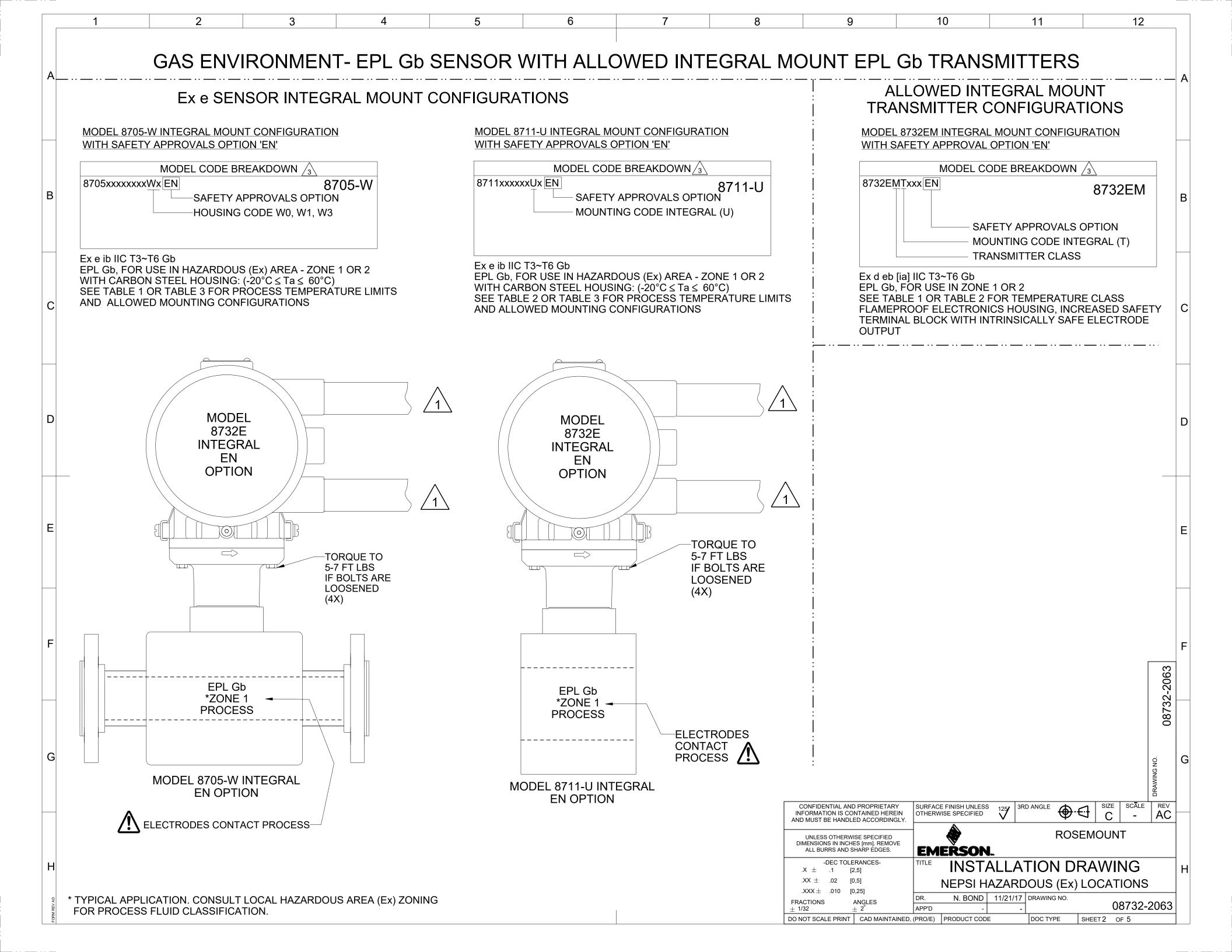
CONTROL EQUIPMENT CONNECTED TO BARRIER MUST NOT USE OR GENERATE MORE THAN 250V.

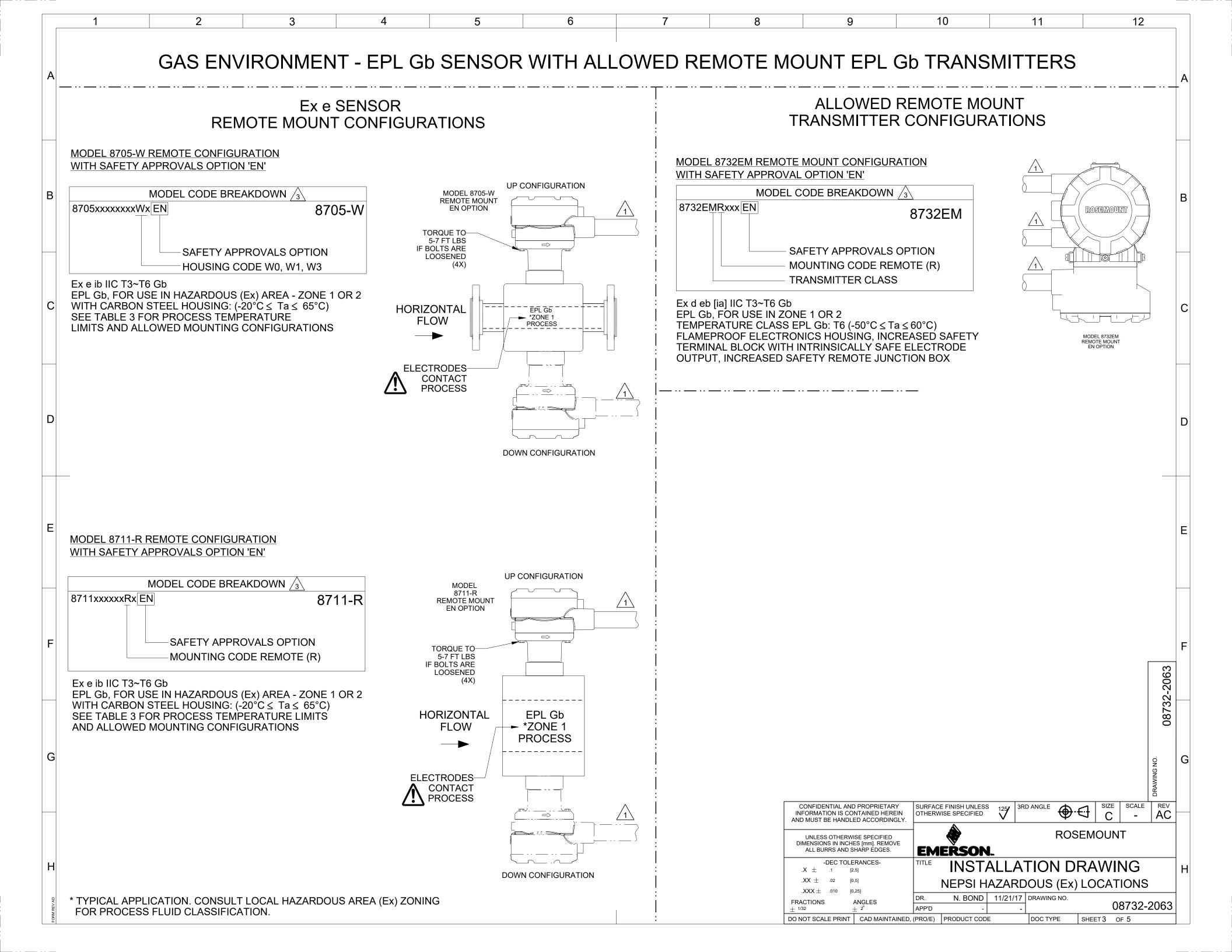
ASSOCIATED APPARATUS MANUFACTURER'S INSTALLATION DRAWING MUST BE FOLLOWED WHEN INSTALLING THIS EQUIPMENT.

/ 9. \setminus THE TRANSMITTER IS NOT CAPABLE OF PASSING THE 500V ISOLATION TEST ON TERMINALS 1-10 DUE TO INTEGRAL TRANSIENT 10. FOR ALL INSTALLATIONS MAXIMUM TERMINAL TIGHTENING TORQUE IS 10.6 IN LBS.

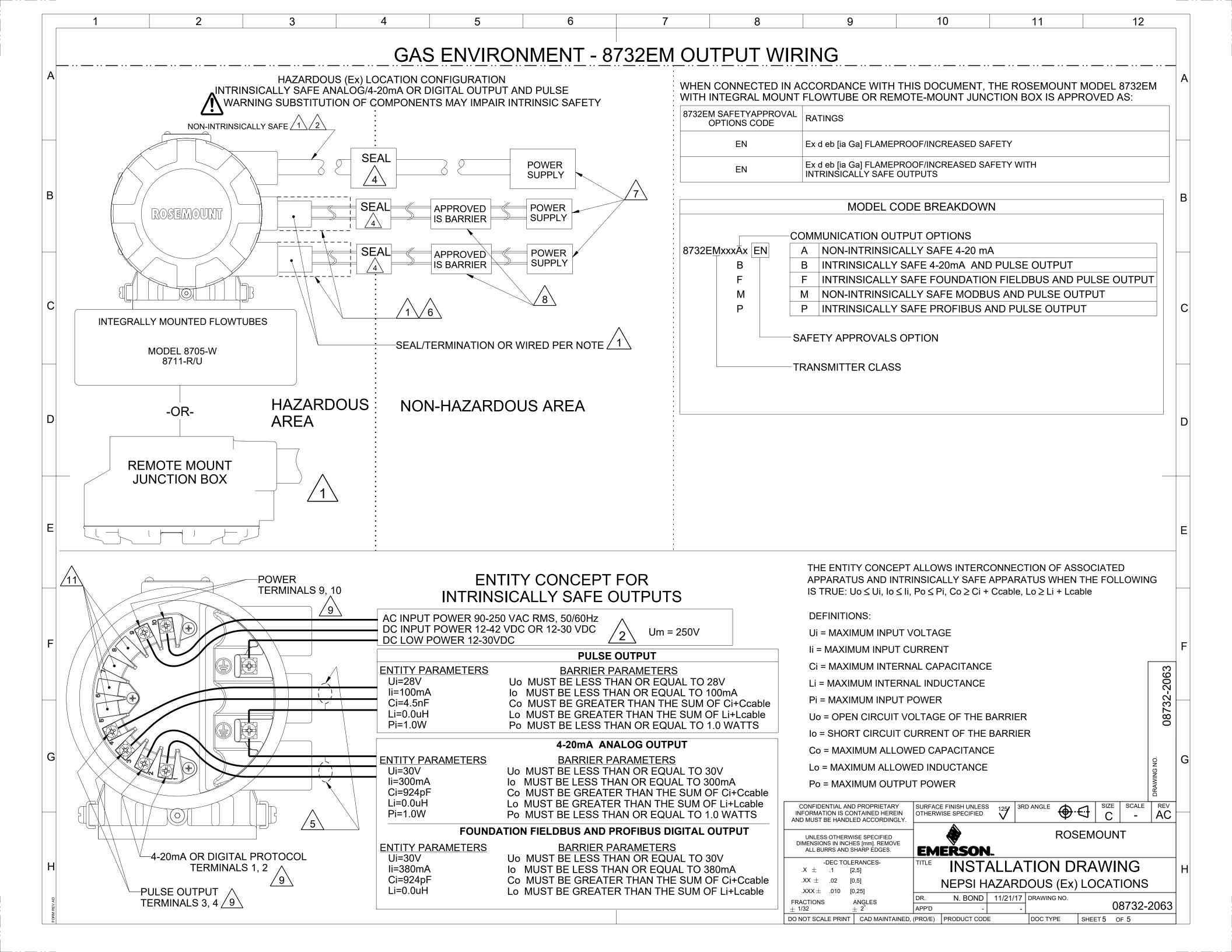
/11 \setminus DI/DO TERMINALS ARE NOT POPULATED. THE DI/DO OPTION (AX) IS NOT AVAILABLE WITH INTRINSICALLY SAFE OUTPUTS. 12. TRANSMITTER OUTPUTS ARE CONSIDERED INTRINSICALLY SAFE WHEN INSTALLED IN ACCORDANCE TO INTRINSICALLY SAFE

NOTES:





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