

NOTES:

1. THE MAXIMUM OUTPUT VOLTAGE FROM THE SAFE AREA APPARATUS MUST NOT EXCEED THE RATINGS OF THE TRANSMITTER: Vmax=30VDC, Imax=50mA
2. CIRCUIT IN HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING A VOLTAGE TEST OF 500 VRMS TO EARTH OR TO THE FRAME OF THE APPARATUS. USE 8093 INSULATOR ON CONNECTOR BETWEEN PROBE AND EXTENSION CABLE.
3. THE INSTALLATION MUST COMPLY WITH THE APPROPRIATE NATIONAL INSTALLATION REQUIREMENTS.
4. THE TRANSMITTER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

5 THE TRANSMITTER PROBE ENTITY PARAMETERS ARE:

Vo = 5.36V

Io = 50mA

Ca = 997uF

La = 31.3mH

Po = 0.268W

THE SERIES 10000 PROBE TOGETHER WITH ITS 10000 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY CSA CERTIFIED INTRINSICALLY SAFE OR NON-INCENDIVE/INCREASED SAFETY PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:

Vmax ≥ Voc

Imax ≥ Isc

Ci + C cable ≤ Ca

Li + L cable ≤ La

Pi ≥ Po

THE TRANSMITTER PROVIDES A NON-INCENDIVE/INCREASED SAFETY CIRCUIT TO THE PROBE.

TRANSMITTER ENTITY PARAMETERS ARE AS FOLLOWS:

Vmax = 30V

Imax = 50mA

Ci = 18nF

Li = 0uH

Pi = 0.375W

CLASS I, DIVISION 2, GROUPS A, B, C, AND D, T4, Tamb: -40°C to 85°C.
THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C AND D OR NON HAZARDOUS LOCATIONS ONLY.

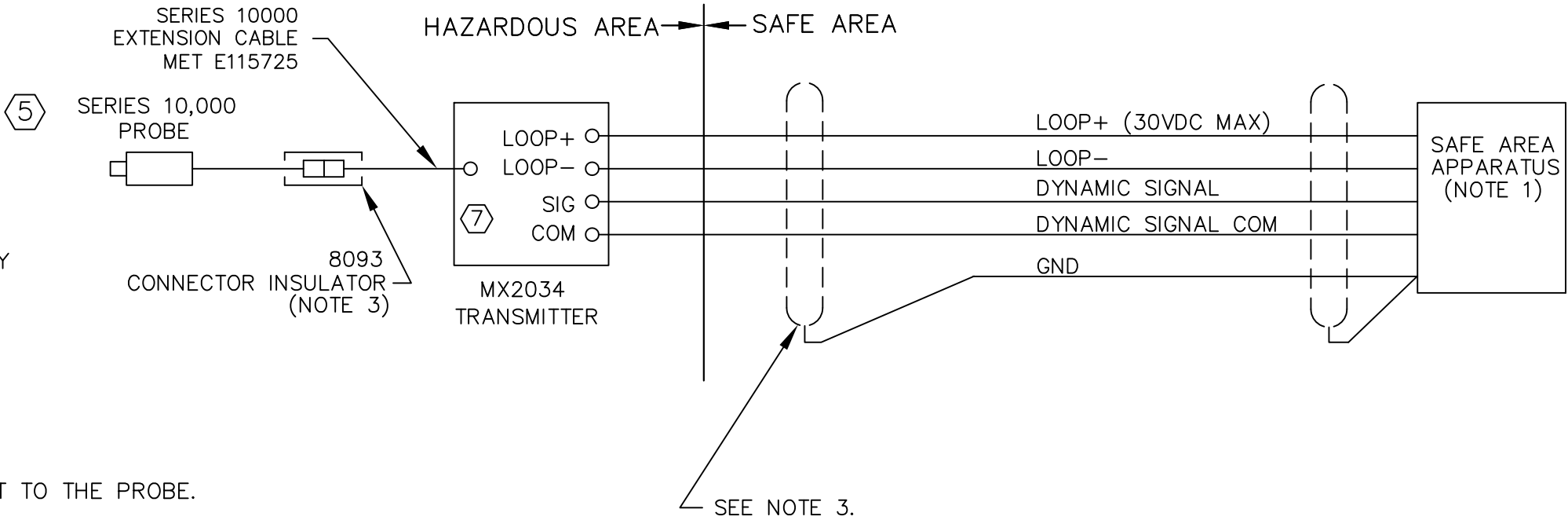
WARNING – EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.

AVERTISSEMENT – RISQUE D’EXPLOSION – LA SUBTITIOND E COMPOSANTSP EUTR ENDRE CE MATERIEL INACCEPTABLE POUR LES EMBLEMENTS DE CLASSE I, DIVISION 2.

REFER TO MANUAL 100545 FOR MAINTENANCE AND OPERATING INSTRUCTIONS.

REVISIONS		
REV	OR/CHANGE	
A	RELEASE	8/2/11
B	ADDED 2ND PG/PROBE DRIVER INFO	6/7/12
C	ADDED MX2034, 4 PIN TO DWG	11/4/19
D	REMOVE MX2032; UPDATE SPECIAL CONDITIONS, ec	4/25/22
E	CR 1286, ADD MET AGENCY INFO	11/03/25

DIVISION 2 INSTALLATION
NORTH AMERICAN STANDARDS



MATERIAL:		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. ALL CORNERS BROKEN TO .010 MIN RADIUS AND TOLERANCES ARE:		APPROVALS		DATE		METRIX HOUSTON, TEXAS U.S.A. DIV. 2 INSTALLATION (INTERTEK) MX2033/MX2034					
FINISH:		FRACTIONS: DECIMALS: ±1/64 .XX ±.01 ANGLES: .XXX ±.005 ±1' SURFACE FINISH 64		DRAWN BY: A. Wilson		08-02-11							
THIS DOCUMENT AND ALL INFORMATION HEREON IS THE PROPERTY OF METRIX INSTRUMENT CO. APPROVAL MUST BE OBTAINED BEFORE IT IS REPRODUCED OR INFORMATION HEREON IS ISSUED TO A THIRD PARTY. THIS DOCUMENT MUST BE RETURNED UPON REQUEST.		NEXT ASSY		USED ON		CHECKED BY:							
		APPLICATION		DO NOT SCALE DRAWING		APPROVED BY:							
				SIZE B		PART NO.: 100512		REV. E					
				SCALE: 1:1		DOCUMENT NO.: 100512-DWG		SHEET: 1 of 2					

NOTES:

1. THE MAXIMUM OUTPUT VOLTAGE FROM THE SAFE AREA APPARATUS MUST NOT EXCEED THE RATED VOLTAGE OF THE TRANSMITTER: 30VDC.
2. CIRCUIT IN HAZARDOUS AREA MUST BE CAPABLE OF WITHSTANDING A VOLTAGE TEST OF 500 VRMS TO EARTH OR TO THE FRAME OF THE APPARATUS. USE 8093 INSULATOR ON CONNECTOR BETWEEN PROBE AND EXTENSION CABLE.
3. THE INSTALLATION MUST COMPLY WITH THE APPROPRIATE NATIONAL INSTALLATION REQUIREMENTS.
4. THE PROBE DRIVER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.

5 THE PROBE DRIVER PROBE ENTITY PARAMETERS ARE:

$V_{oc} = 5.36V$
 $I_{sc} = 93mA$
 $C_a = 62\mu F$
 $L_a = 8.5mH$
 $P_o = 0.5W$

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$V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
 $P_i \geq P_o$

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