

Hazardous Area Installation Manual

MX2033 and MX2034 Digital Proximity System

Before proceeding to wire and install the Model MX2033 or MX2034 Digital Proximity System (DPS), read and thoroughly understand these instructions. They are intended for experienced personnel who require only basic installation guidance, and assume that the DPS has already been selected and applied properly for the machinery at hand. Please contact Metrix or its local representative for additional assistance. See also section 2 of this manual for additional technical resources available free-of-charge on our website at www.metrixvibration.com

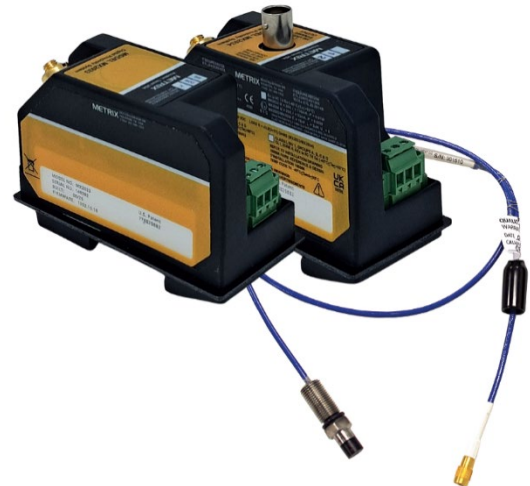
This electronic equipment was manufactured according to high quality standards to ensure safe and reliable operation when used as intended. Due to its nature, this equipment may contain small quantities of substances known to be hazardous to the environment or to human health if released into the environment. For this reason, Waste Electrical and Electronic Equipment (commonly known as WEEE) should never be disposed of in the public waste stream. The “Crossed-Out Waste Bin” label affixed to this product is a reminder to dispose of this product in accordance with local WEEE regulations. If you have questions about the disposal process, please contact Metrix.



1. Overview

The Digital Proximity System (DPS) provides the performance of a fully API 670-compliant eddy-current proximity measurement system with the flexibility of digital programmability. For the first time, users have the ability to easily select their transducer system in the field from pre-programmed calibrations for a variety of probe tip diameters, manufacturers, extension cable lengths, target materials, and linear ranges.

A Digital Proximity System consists of a probe, extension cable, and MX2033 or MX2034 DPS signal conditioner.

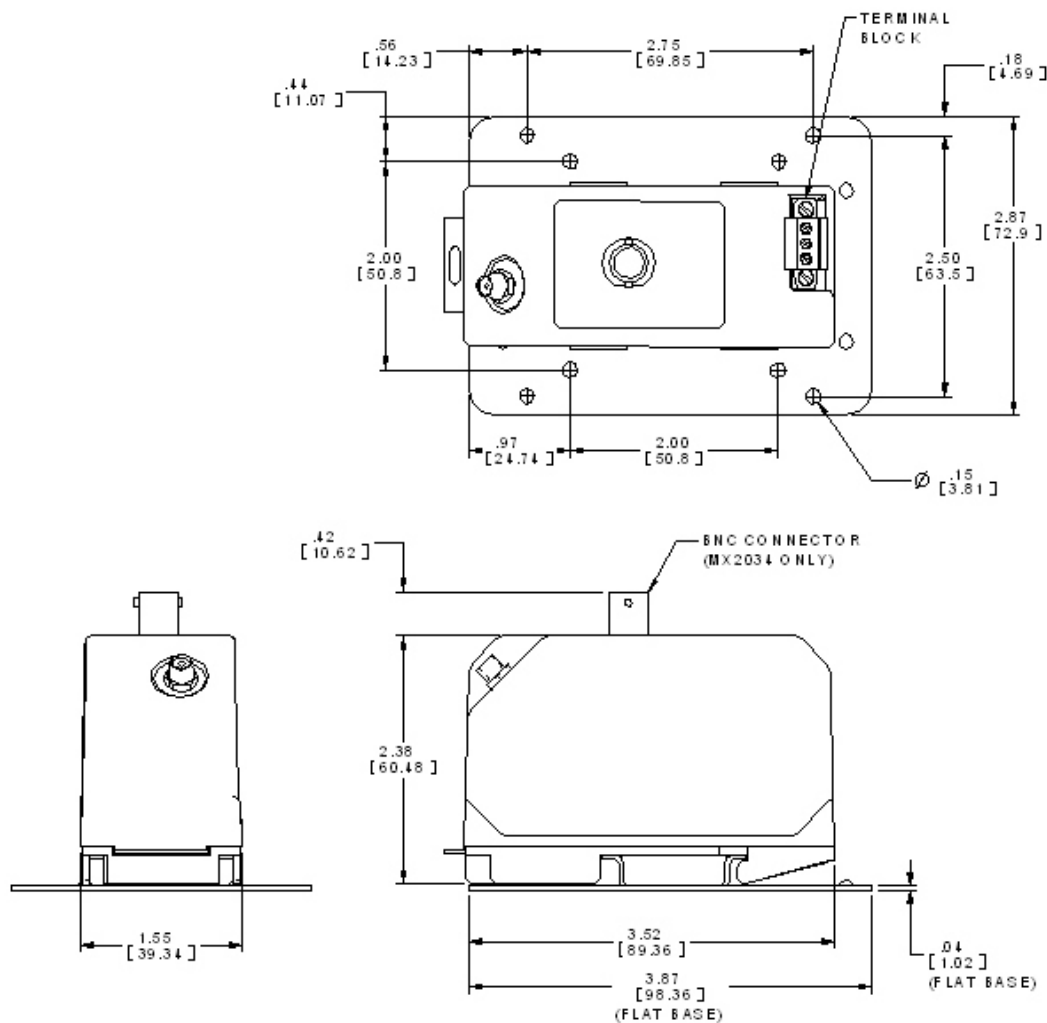


2. Supplementary Information

Refer to Product Datasheet 1087015, Installation Manual 100545, and Operation & Maintenance Manual 100576. These are available at www.metrixvibration.com.

3. Mounting

Mount the DPS in a suitable enclosure in a location that is compatible with its environmental specifications (See Datasheet 10870151). The driver or transmitter comes as a DIN rail mount. The below figure shows the unit with the optional flat base mounting plate, part number 9647. The 9647 mounting plate has two different hole patterns. One is for Metrix 5465/5488 transmitters and the other pattern is for Metrix 5533, MX3300 and most other manufacturers' probe drivers.



4. Extension Cable Installation

Route the extension cable using the following guidelines:

- Check that the Driver/Transmitter, extension cable, and probe belong to the same system (e.g. Metrix 10000 Series or 3300 series) and that the total system length is correct (5m or 9m).
- Secure the extension cable to supporting surfaces or place in conduit. Make certain the cable is not kinked, scraped, nor bent beyond the minimum recommended radius of 1".
- Secure coaxial connectors between the extension cable and the proximity probe. Connection should be "finger tight".
- Insulate the connection between the probe lead and the extension cable by wrapping the connector with Teflon tape and the Metrix 8973 connector insulator.

5. MX2034 Intrinsically Safe 2 Wires, North America

NOTES:

- SAFE AREA APPARATUS IS NOT SPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN IN NORMAL OR ABNORMAL CONDITIONS A SOURCE OF EXCESSIVE TENSION SUBJECT TO EARTH IN EXCESS OF 250 VRMS OR 250 VDC.
- THE TRANSMITTER ENTITY PARAMETERS ARE:

INTRINSICALLY SAFE INSTALLATION, 2 WIRE
NORTH AMERICAN STANDARDS

HAZARDOUS AREA ← **SAFE AREA**

SHUNT ZENER DIODE SAFETY BARRIERS (NOTE 2)

SAFE AREA APPARATUS (NOTE 1)

LOOP+ LOOP- COM

+21 TO +25VDC SIGNAL RETURN

EARTH

SEE NOTE 3.

HAZARDOUS AREA

MX2034 TRANSMITTER

8093 CONNECTOR INSULATOR (NOTE 3)

PROBE

EXTENSION CABLE

10000 SERIES

10,000 MET E115725

HAZARDOUS AREA

SAFE AREA POWER SUPPLY (NOTE 1)

SAFE AREA APPARATUS (NOTE 1)

LOOP+ LOOP- LOOP- GALVANIC ISOLATION SAFETY BARRIER (NOTE 2)

SEE NOTE 3.

HAZARDOUS AREA

MX2034 TRANSMITTER

8093 CONNECTOR INSULATOR

PROBE

EXTENSION CABLE

10000 SERIES

10,000 MET E115725

AGENCY APPROVED PRODUCT
DO NOT REPEAT FROM DOCUMENTED CONSTRUCTION OR LISTED PARTS

METRIX
METRIX INSTRUMENT CO.
METRIX, TEXAS, U.S.A.

INTRINSICALLY SAFE
INSTALLATION (INTERTEK)
MX2033 & MX2034

100506

DO NOT SCALE DRAWING

SHEET 1 OF 3

THE SERIES 10,000 PROBE TOGETHER WITH ITS 10,000 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY CSA CERTIFIED INTRINSICALLY SAFE PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:

CLASS I, DIV. 1, GROUPS A, B, C, D
T_a, Tamb: -40°C to 85°C

WARNING – SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
Exia, INTRINSICALLY SAFE, CLASS I, DIV. 1, GROUPS A – D, Tcode: T_a, -40°C ≤ Tamb ≤ 85°C

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.
Exia, INTRINSEQUEMENT SECURISE, CLASS I, DIV. 1, GROUPES A – D, Tcode: T_a, -40°C ≤ Tamb ≤ 85°C

WARNING – TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.
AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QU'IL NE S'AGISSE D'UN EMPLOI NON DANGEREUX.

REFER TO MANUAL 100545 FOR MAINTENANCE AND OPERATING INSTRUCTIONS.
AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QU'IL NE S'AGISSE D'UN EMPLOI NON DANGEREUX.

INTRINSICALLY SAFE INSTALLATION, 4 WIRE
NORTH AMERICAN STANDARDS

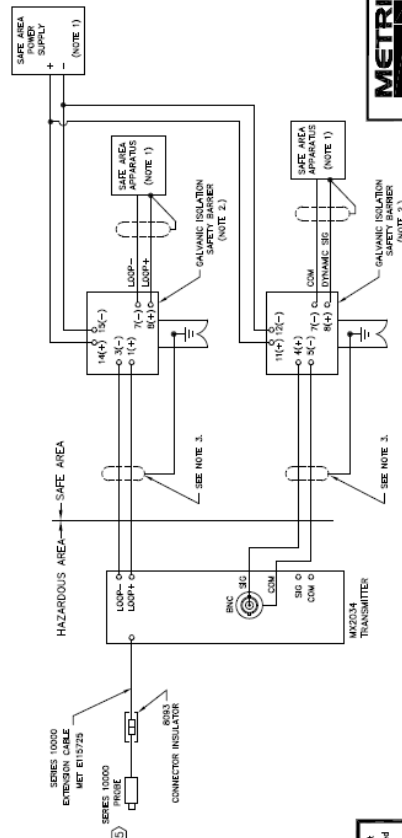
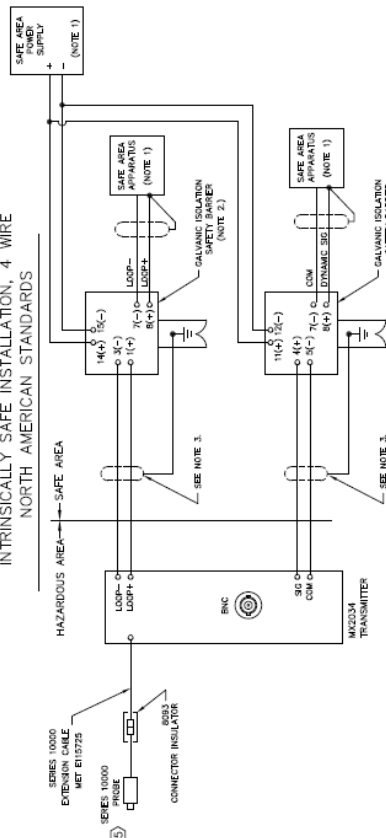


TABLE 1			
INDEX RETURN INNOV			
	CAPABILITY	INNOVATIVE	LR AND MR/NN
EC	0.065	4.1	54
MC	0.065	4.1	54
IC	0.237	19.3	162
FA	0.546	33.8	432

TABLE 2			
GAINING INSIGHT			
	CAPABILITY	INNOVATIVE	LR AND MR/NN
EC	0.065	4.3	56
MC	0.065	4.3	56
IC	0.532	17.22	233
FA	2.532	36.02	444

TABLE 3			
EXTERNAL INSIDE GAZE			
	CAPABILITY	INNOVATIVE	LR AND MR/NN
EC	32	505	4255
MC	32	505	4255
IC	720	5000	17000
FA	2720	5000	17000

1. SAFE AREA APPARATUS IS NOT SPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN IN NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250 VRMS OR 250 VDC.
2. THE SAFETY BARRIER MUST BE:
 - LOOP POWER CONNECTION: 24VDC POWERED GALVANIC ISOLATOR WITH THE FOLLOWING OR LOWER OUTPUT PARAMETERS:
 $I_o = 25.4 \text{ V}$
 $I_o = 86.9 \text{ mA}$
 $P_o = 0.035 \text{ W}$
 - DYNAMIC SIGNAL CONNECTION: 24VDC POWERED GALVANIC ISOLATOR WITH THE FOLLOWING OR LOWER OUTPUT PARAMETERS:
 $I_o = 15.5 \text{ V}$
 $I_o = 10.4 \text{ mA}$
 $P_o = 0.020 \text{ W}$
3. A SUITABLE EXAMPLE IS A MFD1-STD4-EX1 OR EQUIVALENT THE BARRIER MUST BE CERTIFIED BY CSA OR ANY NRTL/ETL APPROVED CERTIFICATION BODY TO [EEX I] IIC.
4. GALVANIC ISOLATORS MUST BE RATED AT MINIMUM THE LIMITS OF CAPACITANCE AND INDUCTANCE SHOWN IN TABLE 2.
5. INSTALL IN ACCORDANCE WITH THE APPROPRIATE NATIONAL ELECTRICAL REQUIREMENTS AND PER THE BARRIER INSTRUCTIONS.
6. THE TRANSMITTER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
7. THE TRANSMITTER PROBE ENTITY PARAMETERS ARE:

Vcc = 5.35V
 Isc = 94mA
 Cg = 62µF
 Lg = 8.5mH
 Po = 0.5W

THE SERIES 10.000 PROBE TOGETHER WITH ITS 10.000 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY EQUIVALENTLY SAFE PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:

Vmax	≥	Vcc
Isc	≥	Isc
Cg	≥	Cg
Li + L cable	≥	La
Pl	≥	Po

CLASS I, DIV. 1, GROUPS A, B, C, D
 T4, Tamb: -40°C to 85°C

WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
 ATTENTION - REMPLACEMENT DES COMPOSANTS PEUT FAIRE PERDRE LA SECURITE INTRINSECHIQUE.
 CLASS I, DIV. 1, GROUPS A - D, Tcode: T4, -40°C ≤ Tamb ≤ 85°C

AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSECHIQUE.
 ATTENTION - TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES.
 ATTENTION - TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES.
 WARNING - TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DO NOT DISCONNECT POWER BEFORE SERVICING.
 ATTENTION - POUR PREVENIR L'ALLUMAGE D'UNE ATMOSPHERE INFLAMMABLE OU COMBUSTIBLE, NE DEBRANCHEZ PAS LE CIRCUIT AVANT D'INTERVENIR.
 READ, UNDERSTAND AND ADHERE TO THE MANUFACTURER'S LIVE MAINTENANCE PROCEDURES.

REFER TO MANUAL 100545 FOR MAINTENANCE AND OPERATING INSTRUCTIONS.
 POUR PLUS D'INFORMATIONS, VOUS REMPLIR LA PAGE 100545 DU MANUEL D'ENTRETIEN ET D'OPERATION.

Baseeq Certified Product
No modifications permitted
without reference to
Baseeq

7. MX2033 Intrinsically Safe, North America

**INTRINSICALLY SAFE INSTALLATION
NORTH AMERICAN STANDARDS**

HAZARDOUS AREA

SAFE AREA

SHUNT ZENER DIODE SAFETY BARRIERS (NOTE 2)

SAFE AREA APPARATUS (NOTE 1)

SAFE AREA POWER SUPPLY (NOTE 1)

SEE NOTE 3.

SEE NOTE 4.

HAZARDOUS AREA

SAFE AREA

SHUNT ZENER DIODE SAFETY BARRIERS (NOTE 2)

SAFE AREA APPARATUS (NOTE 1)

SAFE AREA POWER SUPPLY (NOTE 1)

SEE NOTE 3.

SEE NOTE 4.

NOTES:

- SAFE AREA APPARATUS IS NOT SPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM NOR CONTAIN IN NORMAL OR ABNORMAL CONDITIONS A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250 VRMS OR 250 VDC.
- ENTITY INSTALLATION:
PROBE DRIVER ENTITY PARAMETERS ARE:
 $V_{max} = 30V$
 $I_{max} = 150mA$
 $C_i = 52nF$
 $L_i = 160\mu H$
- CHOOSE A CSA/ETL CERTIFIED BARRIER WITH ENTITY PARAMETERS THAT SATISFY THE FOLLOWING CONDITIONS:
 $V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
- SUITABLE BARRIERS INCLUDE:
 MTL 7875 (-) AND STAHL 9002/13-280-093-00
 SUITABLE GALVANIC ISOLATION SAFETY BARRIERS INCLUDE:
 STAHL 9307/11-89-10
- INSTALL IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE PART 1 AND PER THE BARRIER INSTRUCTIONS.
- PROBE DRIVER MUST BE INSTALLED IN A SUITABLE ENCLOSURE ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- THE TRANSMITTER PROBE ENTITY PARAMETERS ARE:
 $V_{oc} = 5.36V$
 $I_{sc} = 9.3mA$
 $C_a = 62nF$
 $L_a = 8.5mH$
 $P_o = 0.5W$
- THE SERIES 10,000 PROBE TOGETHER WITH ITS 10,000 EXTENSION CABLE AND 8093 CONNECTOR INSULATOR MAY BE REPLACED BY ANY CSA CERTIFIED INTRINSICALLY SAFE PROBE THAT SATISFIES THE FOLLOWING CONDITIONS:
 $V_{max} \geq V_{oc}$
 $I_{max} \geq I_{sc}$
 $C_i + C_{cable} \leq C_a$
 $L_i + L_{cable} \leq L_a$
 $P_i \geq P_o$
- CLASS I, DIV. 1, GROUPS A, B, C, D
 T_4 , Tamb: -40°C to 85°C
 WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
 AVERTISSEMENT: LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.
 WARNING - TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.
 EMB: INTRINSICALLY SAFE, CLASS I, Div. 1, GROUPS A - D, Tcode: T4, -40°C ≤ Tamb ≤ 85°C
 WARNING - TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, READ, UNDERSTAND AND ADHERE TO THE MANUFACTURE'S LIVE MAINTENANCE PROCEDURES.
 REFER TO MANUAL 100545 FOR MAINTENANCE AND OPERATING INSTRUCTIONS.
 AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX.

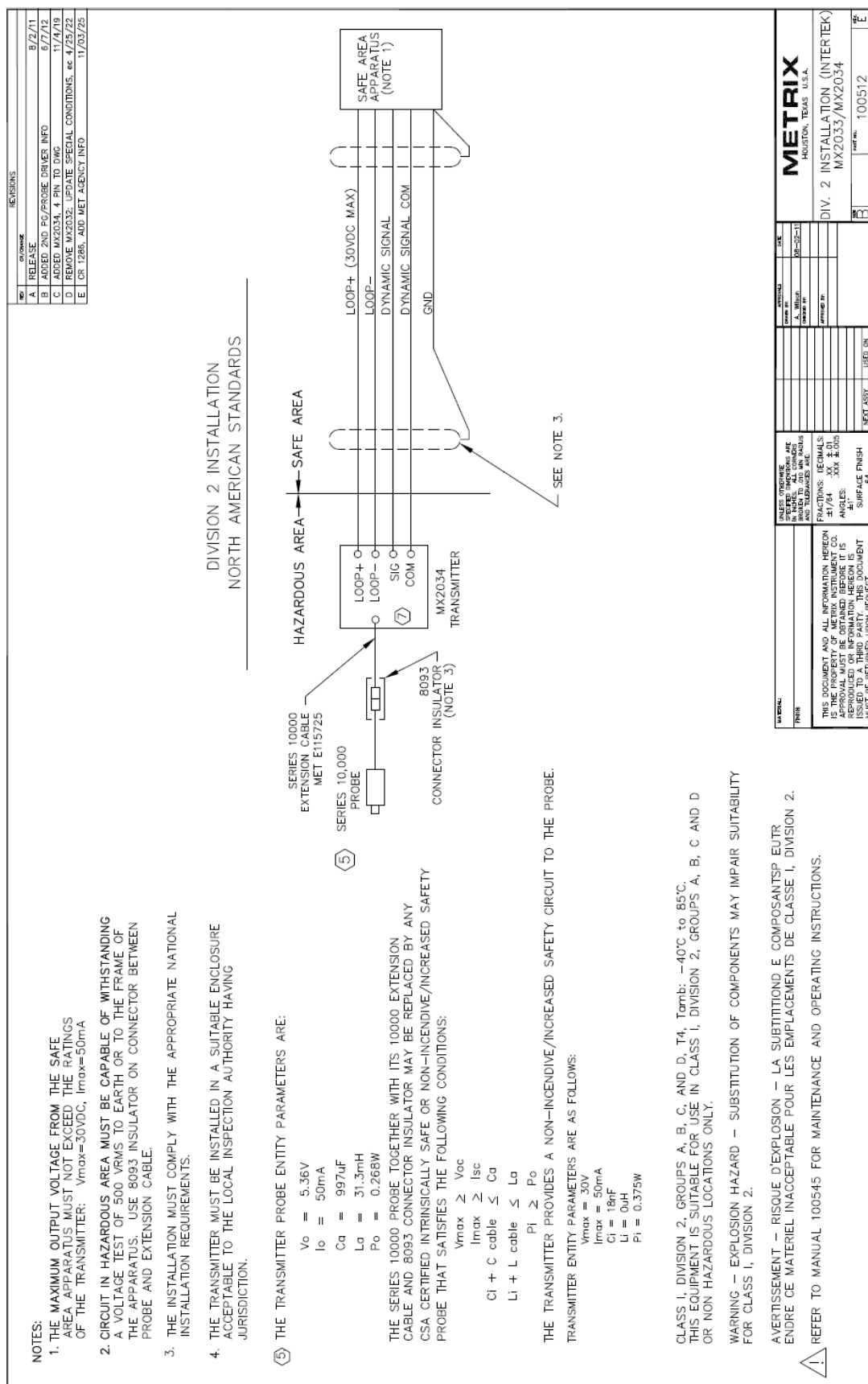
METRIX
HOUSTON, TEXAS U.S.A.

INTRINSICALLY SAFE
INSTALLATION (INTERTEK)
MX2033 & MX2034

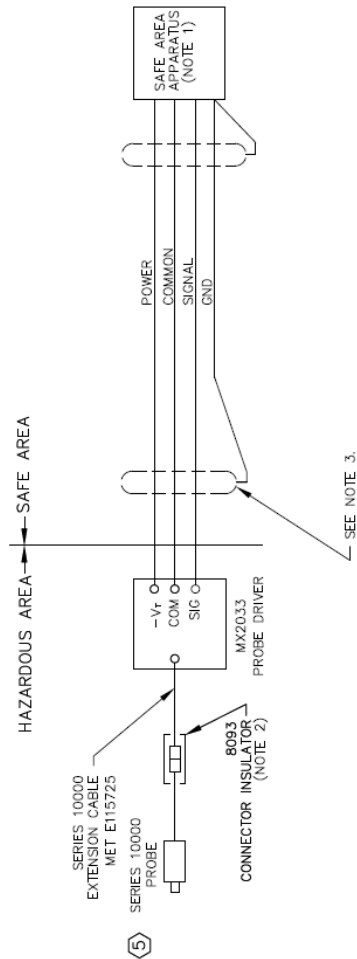
Part No: 100506

REVISION: 3 OF 3

8. MX2034 Division 2 Wiring, North America



DIVISION 2 INSTALLATION
NORTH AMERICAN STANDARDS



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 μ F
L_a	=	8.5mH
P_o	=	0.5W

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:

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

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

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 SUBSTITUTION DES COMPOSANTS PEUT ENDRE CE MATÉRIEL INACCEPTABLE POUR LES EMPLOIS DE CLASSE 1, DIVISION 2.

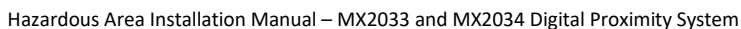
1 REFER TO MANUAL 100545 FOR MAINTENANCE AND OPERATING INSTRUCTIONS.

METRIX
HOUSTON, TEXAS U.S.A.

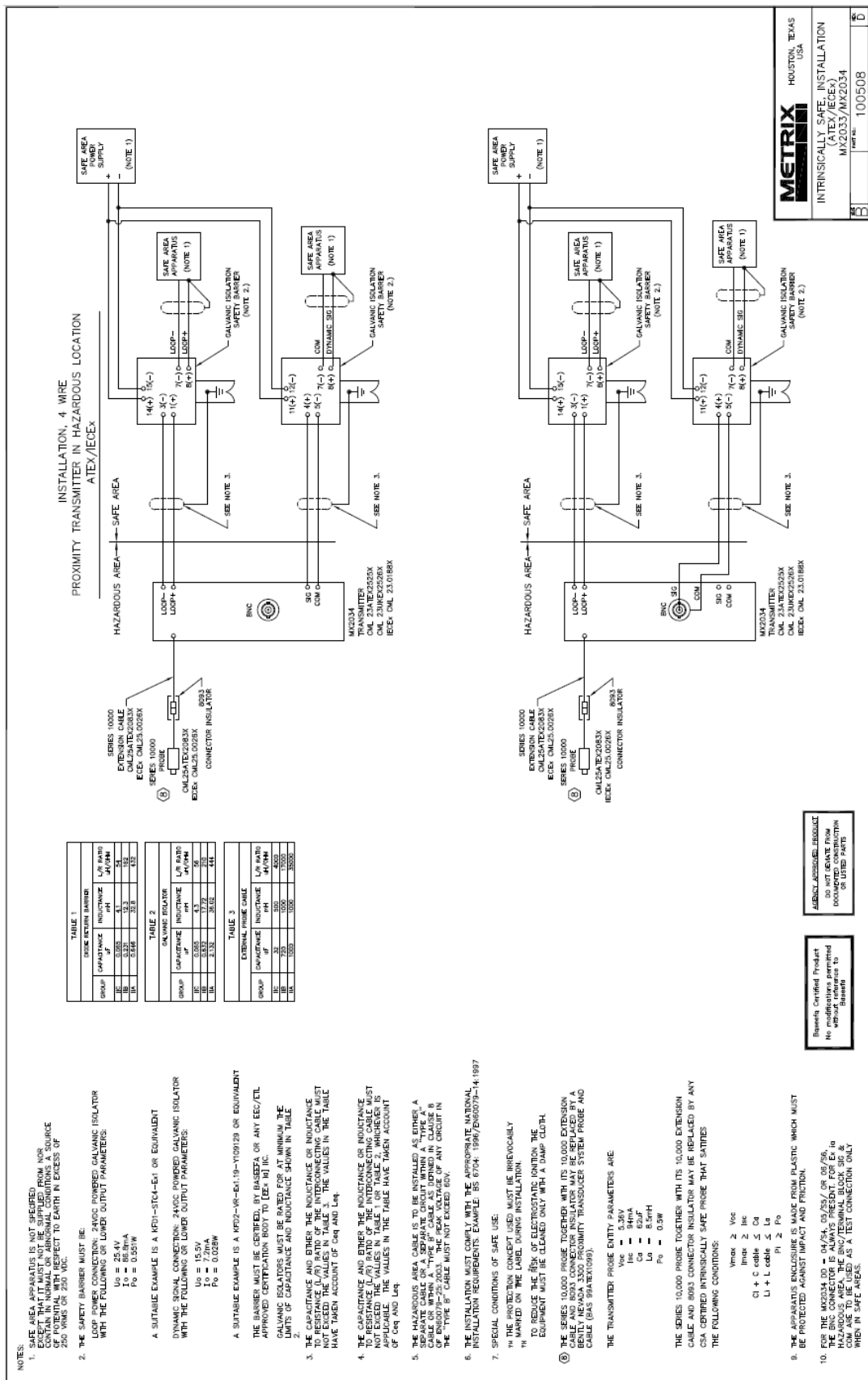
DIV. 2 INSTALLATION (INTERTEK)
MX2033/MX2034

NAME	PRINT NAME	REG. NO.
B	100512	E

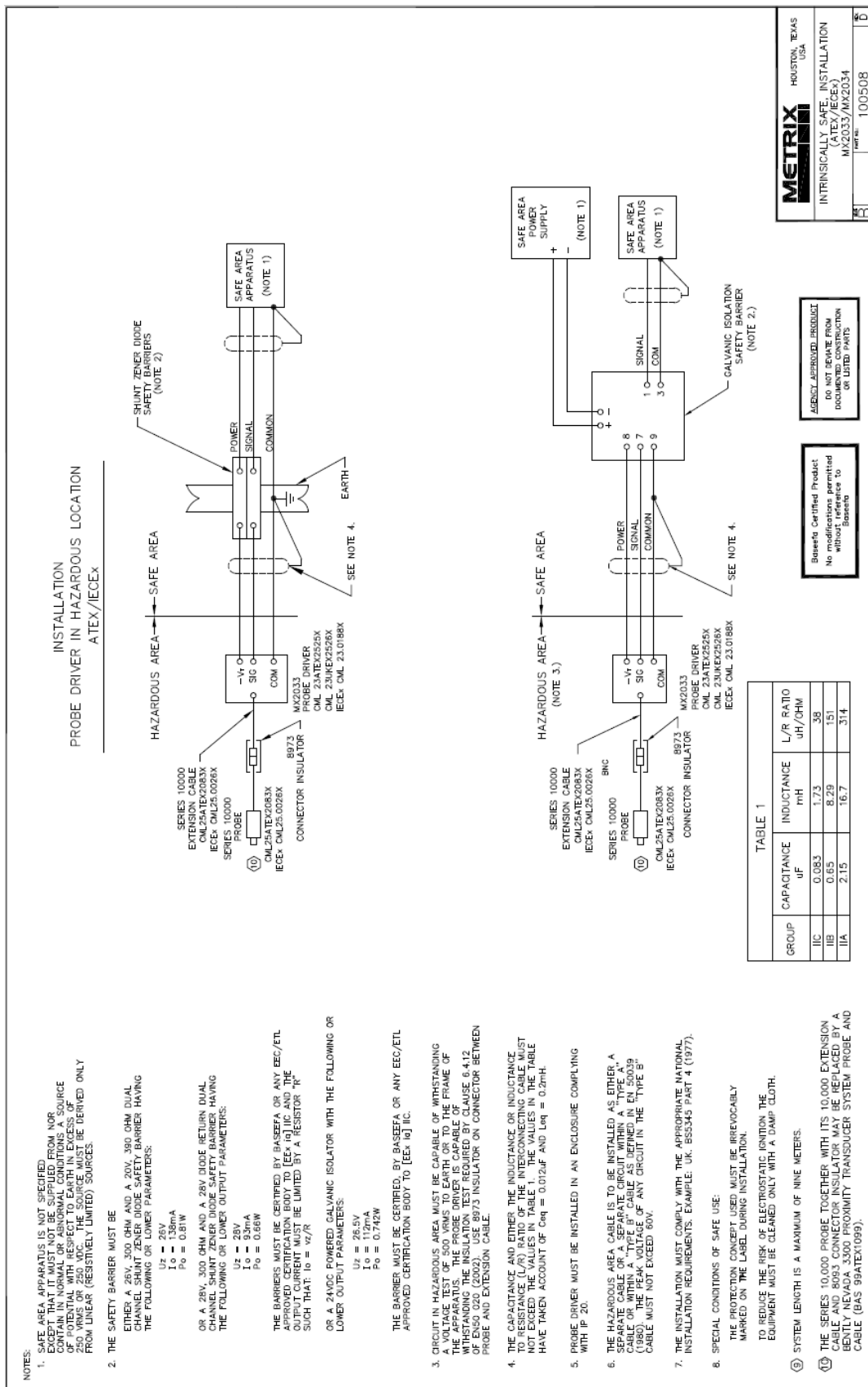
Document 1232961
Rev. G (September 2026)



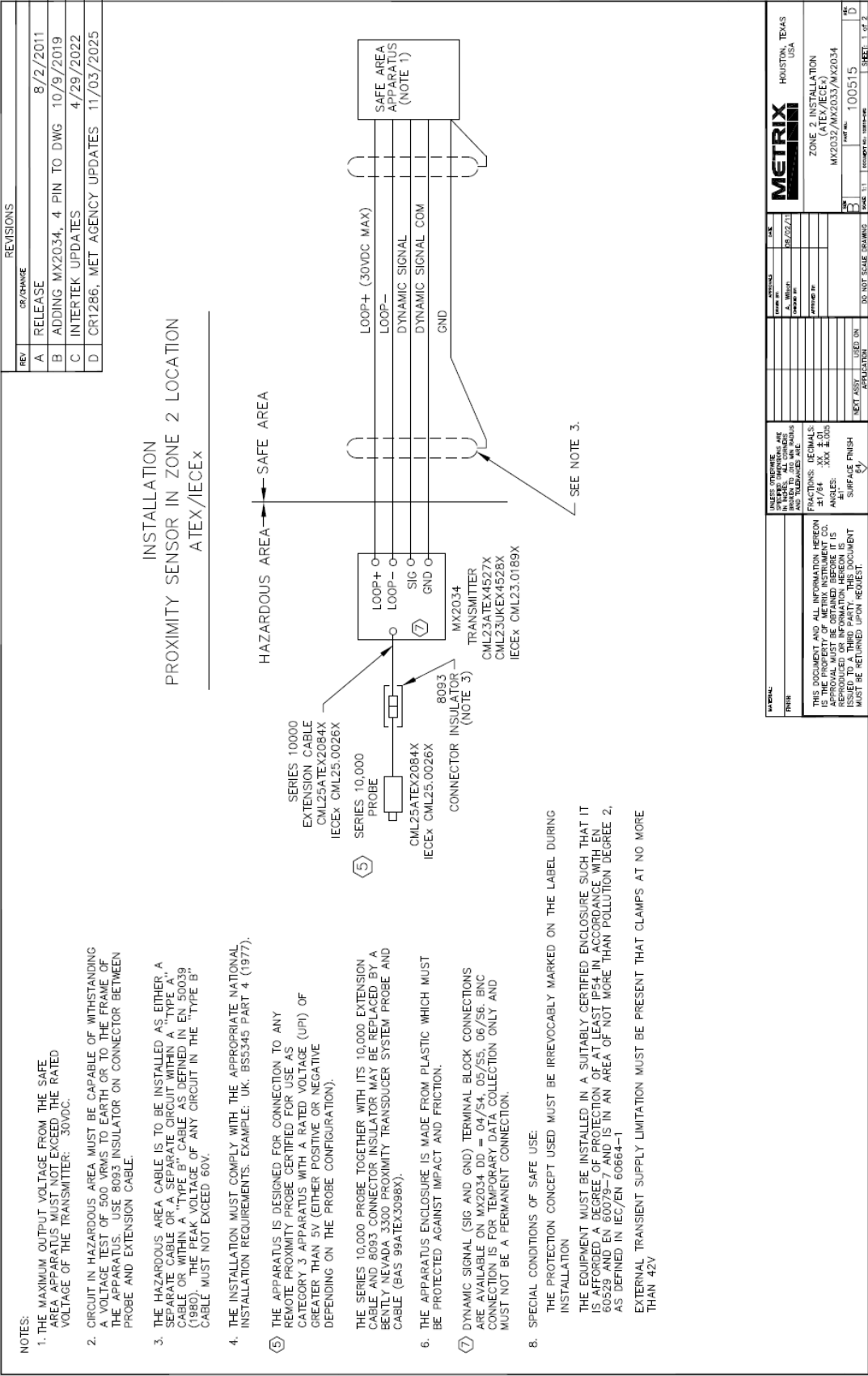
Document 1232961
Rev. G (September 2026)



Document 1232961
Rev. G (September 2026)



13. MX2034 Division 2 Wiring, Non-North America (EN/IEC Standards)



REVISIONS

DATE

DESCRIPTION

1

26/02/21

2

3

4

DO NOT SCALE DRAWING

100515

1 OF 2

METRIX

HOUSTON, TEXAS

USA

ZONE 2 INSTALLATION

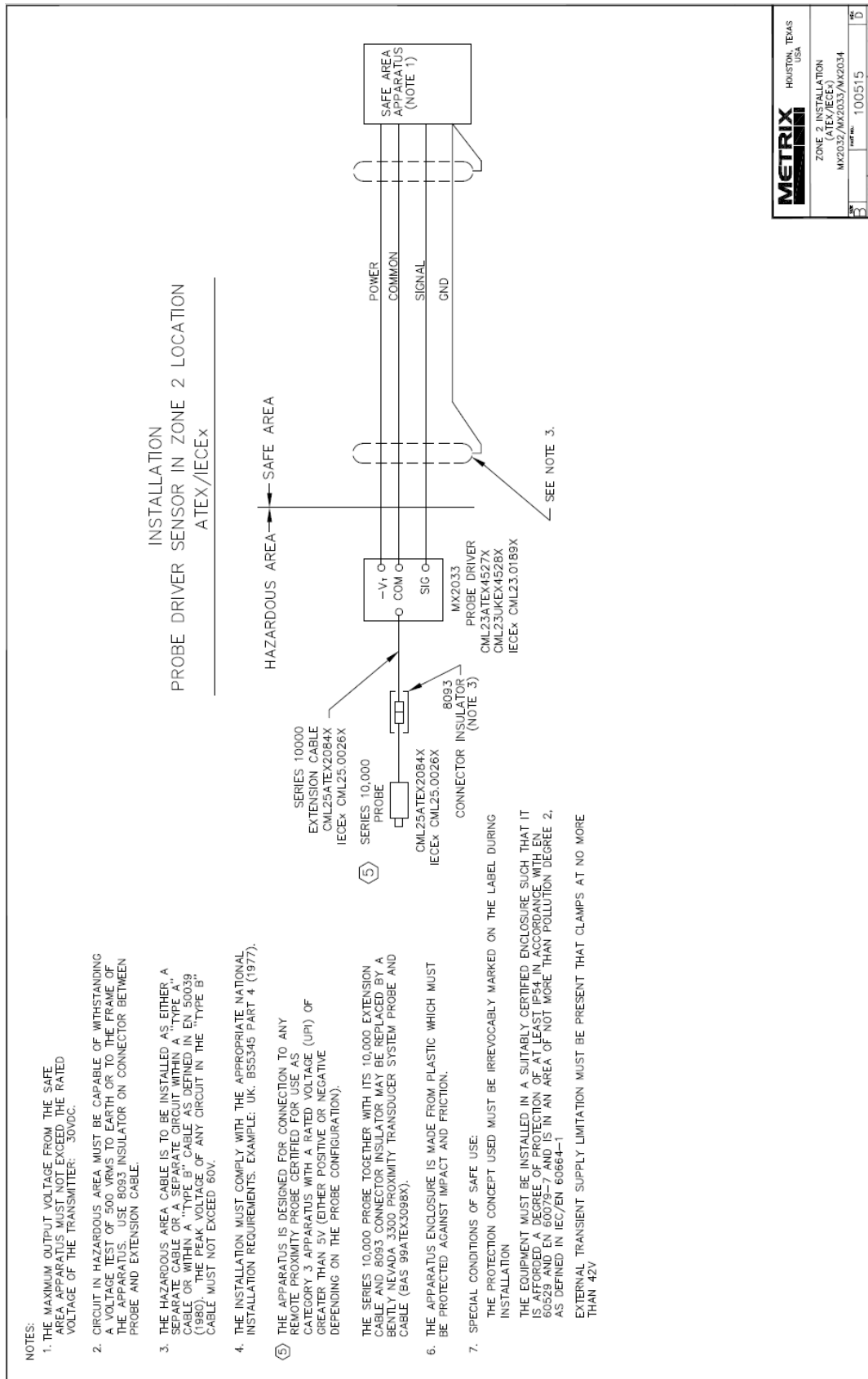
ATEX/IECEx

MX2034/MX2035/MX2034

100515

1 OF 2

	HOUSTON, TEXAS USA	
ZONE 2 INSTALLATION (ATEX/IEC ^{ex}) MX2032/MX2033/MX2034		
3	PART NO. 100515	DEC 0



15. Buffered Output Connections

There are connectors provided for access to the dynamic voltage output on the MX2034. On the MX2034 this is the BNC connector. These connections are not approved for making temporary connections in hazardous areas and both have the entity parameter Um=0.

16. Field Repair and Service

The DPS does not contain any user-serviceable parts and cannot be repaired in the field, except for a custom calibration that can be completed using the DPS software. Replace a failed DPS with an equivalent unit.

17. Specific conditions of safe use (special conditions):

MX2033 and MX2034:

For Intrinsically Safe (Ex ia):

- The protection concept used must be irrevocably marked on the label during installation
- To reduce the risk of electrostatic ignition the equipment must be cleaned only with a damp cloth

For Increased Safety (Ex ec):

- The protection concept used must be irrevocably marked on the label during Installation.
- The equipment shall be completely installed within a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with EN 60529 and IEC/EN 60079-7 and is in an area of not more than pollution degree 2, as defined in IEC/EN 60664-1. All cable entries shall be suitably certified and have a minimum ingress protection of IP54 and shall have a service temperature range of at least -40°C to +93°C.
- External transient supply limitation must be present that clamps at no more than 42V.

When the apparatus is being used in accordance with the type of protection: Ex e IIC T4 (-40°C ≤ T_a ≤ +85°C), the apparatus must be mounted in an enclosure capable of withstanding a 7 Joule impact (at -40°C in non-metallic), provide a degree of ingress protection of at least IP54, use in an area of no worse than pollution of degree 2, and voltage supply is externally clamped at no more than 42V (i.e. 140% of 30V). It is recommended to use “Ex e” or suitable “Ex n” enclosure because they meet IP54 after thermal endurance and 7 Joule impact testing.

The apparatus is capable of withstanding the 600V insulation test required by clause 7.1 of EN 60079-07:2015.

DIV. 1 AND DIV. 2 AREA

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

AVERTISSEMENT - RISQUE POTENTIEL DE RECHARGE ÉLECTROSTATIQUE - VOIR LES INSTRUCTIONS

FIELD WIRING TO TRANSMITTER MUST COMPLY WITH LOCAL CODE. TRANSMITTER PROVIDES INCREASED SAFETY CIRCUIT TO PROBE AND EXTENSION CABLE.

LE CÂBLAGE DE CHAMP À L'ÉMETTEUR DOIT RESPECTER LE CODE LOCAL. ÉMETTEUR FOURNIT UN CIRCUIT INCREASED SAFETY À SONDE ET CÂBLE D'EXTENSION.

DIV 2: THE PRODUCT IS REQUIRED TO BE POWERED THROUGH A CERTIFIED POWER SUPPLY.

10,000 Series Probe and Cable:

The following conditions relate to safe installation and/or use of the equipment.

- The Series 10,000 Probe shall be located in an area of not more than pollution degree 2, as defined in IEC 60664-1. Additionally, the connector shall be afforded a degree of ingress protection of at least IP54 in accordance with IEC 60529 when installed.
- Provision shall be made external to the Series 10,000 Probe, to ensure that the rated input is not exceeded by more than 40%.
- When the equipment incorporates a Teflon coating for the 5497PM Probe Mounting System it is considered to be potential electrostatic charging hazard. As such, the user shall minimize the risk of electrostatic discharge using methods listed in the manufacturer's instructions as per EN IEC 60079-0:2018 / IEC 60079-0:2017 Ed. 7 clause 7.4.2. Additionally, the surface shall only be cleaned with a damp cloth.

18. Hazardous Area Approvals

NRTL Approval (North America): 	NRTL Markings:  E115725 Intrinsically Safe/Increased Safety Class I, Zone 0, AEx ia IIC T4 Ga Class I, Division 1, Groups A, B, C, D, T4 Class I, Zone 2, AEx ec IIC T4 Gc Class I, Division 2, Groups A, B, C, D, T4 Temp Code T4 ($-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$)	UL/CSA Standards: UL 121201 / CSA C22.2 #213-17 UL 913 / CAN / CSA C22.2 #157-92 UL 61010-1 / CSA C22.2 #61010-1-12 UL 508	Intrinsically safe: when installed as per dwg 100506 Increased Safety: Field wiring to transmitter must comply with local code. Refer to installation dwg 100512.
IECEx Approval (World): 	IEC Markings: MX2033 and MX2034: Ex ia IIC T4 Ga Ta ($-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$) IECEx CML 23.0188X Ex ec IIC T4 Gc Ta ($-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$) IECEx CML 23.0189X 10,000 Series Probe and Cable: Ex ia/ec IIC T4 Ga Ta ($-40^{\circ}\text{C} \leq T_a \leq +105^{\circ}\text{C}$) – PVC Jacket Option Ta ($-40^{\circ}\text{C} \leq T_a \leq +110^{\circ}\text{C}$) IECEx CML 25.0026X Ex ia/ec IIC T3 Ga Ta ($-40^{\circ}\text{C} \leq T_a \leq +177^{\circ}\text{C}$) IECEx CML 25.0026X	IEC Standards: IEC60079-0:2017 IEC60079-11:2011 IEC60079-7:2017	CAUTION: Intrinsically safe: Only resistively limited sources are allowed. Electrostatic hazard – clean only with damp cloth. CAUTION: Increased Safety: Do not separate when energized.

ATEX/UKEX Approval (Europe): 	ATEX Markings: MX2033 and MX2034: Ⓔ II 1 G Ex ia IIC T4 Ga Ta (–40°C ≤ Ta ≤ +85°C) CML23ATEX2525X CML23UKEX2526X Ⓔ II 3 G Ex e IIC T4 Gc Ta (–40°C ≤ Ta ≤ +85°C) CML23ATEX4527X CML23UKEX4528X 10,000 Series Probe and Cable: Ⓔ II 1 G Ex ia IIC T4 Ga Ta (–40°C ≤ Ta ≤ +105°C) – PVC Jacket Option Ta (–40°C ≤ Ta ≤ +110°C) CML 25ATEX2083X Ⓔ II 1 G Ex ia IIC T3 Ga Ta (–40°C ≤ Ta ≤ +177°C) CML 25ATEX2083X Ⓔ II 3 G Ex ec IIC T4 Ga Ta (–40°C ≤ Ta ≤ +105°C) – PVC Jacket Option Ta (–40°C ≤ Ta ≤ +110°C) CML 25ATEX4084X Ⓔ II 3 G Ex ec IIC T3 Ga Ta (–40°C ≤ Ta ≤ +177°C) CML 25ATEX4084X	EN Standards: EN60079-0:2018 EN60079-11:2012 EN60079-7:2015+A1:2018	CAUTION: Intrinsically safe: Only resistively limited sources are allowed. Electrostatic hazard – clean only with damp cloth. CAUTION: Increased Safety: Do not separate when energized.
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