

CONDUIT SEAL

CONDUIT
SEE NOTE 3

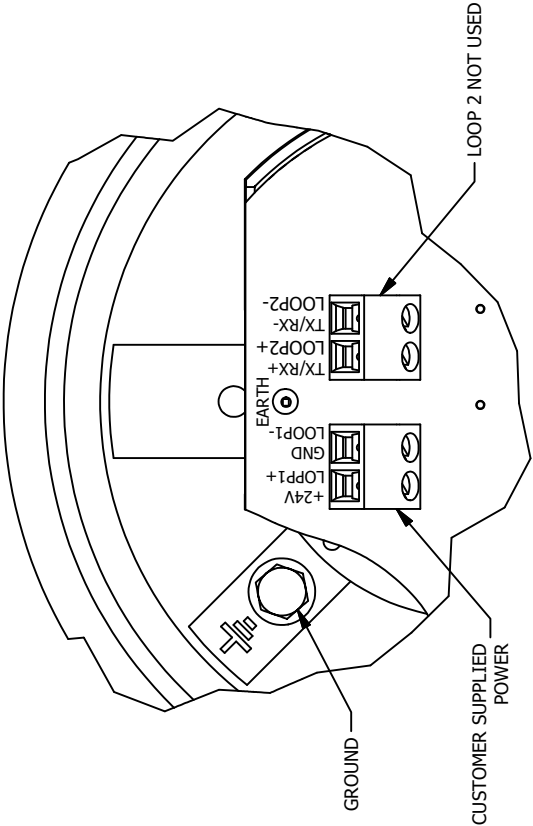
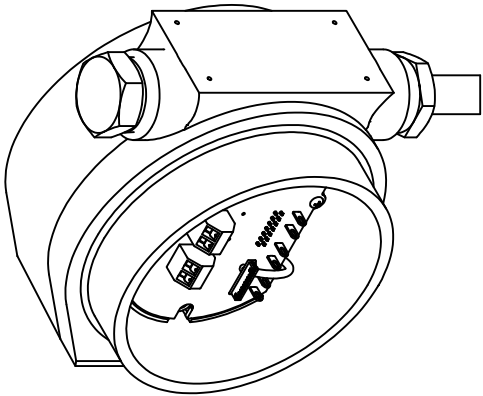
EARTH GROUND

NON-HAZARDOUS LOCATION

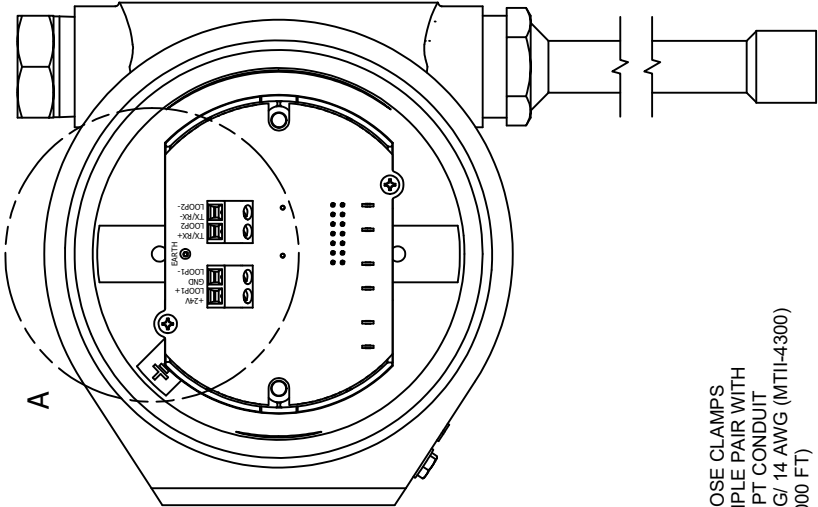
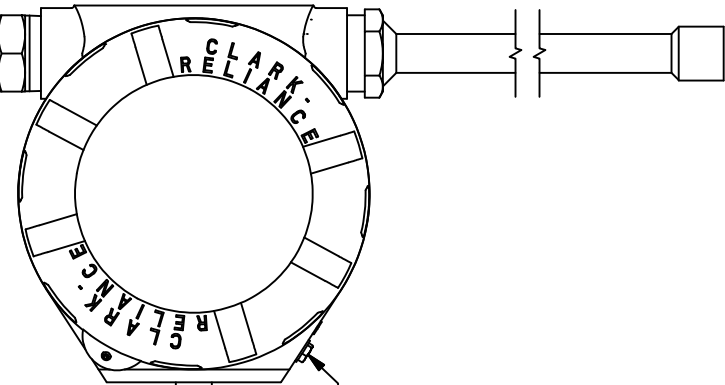
HAZARDOUS LOCATION

- NOTES:
- 1) MTII4300 SHOWN.
 - 2) ALL NATIONAL AND LOCAL CODES AND REGULATIONS MUST BE ADHERED TO WHEN INSTALLING THE LEVEL INSTRUMENT IN A HAZARDOUS ENVIRONMENT.
 - 3) SEALING FITTING WITHIN 457mm (18") OF TERMINATION.
 - 4) WARNING: TO PREVENT IGNITION OF FLAMMABLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.
 - 5) WARNING: THE EQUIPMENT CONTAINS NON-METALLIC ENCLOSURE PARTS, TO PREVENT THE RISK OF ELECTROSTATIC SPARKING, THE NON-METALLIC SURFACE SHOULD ONLY BE CLEANED WITH A DAMP CLOTH.
 - 6) PAINTED SURFACE OF THE EQUIPMENT MAY STORE ELECTROSTATIC CHARGE AND BECOME A SOURCE OF IGNITION. IN APPLICATIONS WITH A LOW HUMIDITY, <~30% RELATIVE HUMIDITY, WHERE THE PAINTED SURFACE IS RELATIVELY FREE OF SURFACE CONTAMINATION SUCH AS DIRT, DUST OR OIL, CLEANING OF THE PAINTED SURFACE SHOULD ONLY BE DONE WITH A DAMP CLOTH.
 - 7) CABLES SHOULD BE RATED >5°C (41°F) ABOVE MAXIMUM AMBIENT TEMPERATURE.
 - 8) THE CONNECTION OF THE OUTSIDE GROUND LUG TO A SAFETY EARTHING GROUND SYSTEM REQUIRED.
 - 9) AGENCY CONTROLLED DOCUMENT.

1	5/1/2017	UPDATED VOLTAGE AND WIRE SIZE FOR MTII 4300	SH
0	3/27/2017	NEW RELEASE, CDC 16-332 8/22/2016	DMB
REV	DATE	REVISION	BY



DETAIL A
SCALE 1 : 1



PARAMETER

LEVEL OUTPUT
MEASURED VARIABLE:
OUTPUT:
FULL RANGE:
NON-LINEARITY:
REPEATABILITY:
SENSOR OPERATING TEMP:

LIQUID LEVEL, INTERFACE LEVEL
4-20 mA, HART
46 TO 579cm (12" TO 228") STRAIGHT (STD.)
46 TO 366cm (12" TO 144") HIGH TEMP EXTENDED
0.020% F.S. (INDEPENDENT BSL) OR 0.794mm (1/32")
0.005% F.S. OR 0.127mm (0.005")
-40 TO 149°C (-40 TO 300°F) AMBIENT

GAUGE LOOP
INPUT VOLTAGE RANGE:
REVERSE POLARITY PROTECTION:
TRANSIENT PROTECTION:

10.5 TO 36VDC (MTII-4200), 10.5 TO 28VDC (MTII-4300)
SERIES DIODES
STAGE 1: LINE-TO-GROUND SURGE SUPPRESSORS; 2500AMPS
PEAK (8/20 µSEC.)
STAGE 2: LINE-TO-LINE AND LINE-TO-GROUND TRANSIENT
SUPPRESSORS; 1500 WATTS PEAK (10/1000 µSEC.)

FIELD INSTALLATION:
MOUNTING:
WIRING:

ON SIDE OF MAGNETIC LEVEL GAGE VIA BRACKETS AND HOSE CLAMPS
2-WIRE CONNECTION, SHIELDED, TWISTED PAIR, OR MULTIPLE PAIR WITH
OVERALL SHIELD TO SCREW/TERMINALS THROUGH A 3/4 NPT CONDUIT
OPENING: MIN 18 AWG/ MAX 12 AWG (MTII-4200), MIN 24 AWG/ 14 AWG (MTII-4300)
MAX CABLE LENGTH: SHIELDED TWISTED PAIR: 3048M (10,000 FT)
MULTIPLE PAIR WITH OVERALL SHIELD: 1524M (5,000 FT)

AGENCY APPROVALS:
FACTORY MUTUAL (FM)

EXPLOSION PROOF:
CLASS I, DIV 1, GROUPS B,C,D, T6 Ta=71°C (160°F)

MANUFACTURED BY

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MTII: CONTROL AND INSTALLATION DRAWING

PART NUMBER: MTII4300 OR MTII4200	
TOLERANCE CLASS (PER PES-004): B	
MATERIAL: PER ORDER	
REVISION: 1 PER CDC 17-176 5/1/2017 SH	
DRAWN: SH	DRAWING NO.:
CHECKED: DMB	CI-25989
DATE: 2/1/2017	REV.: 1

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