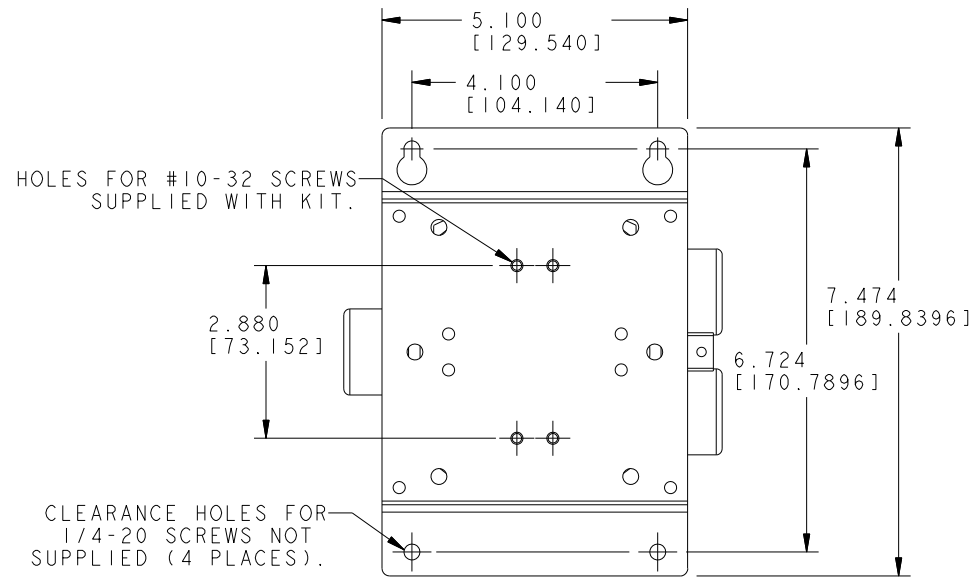
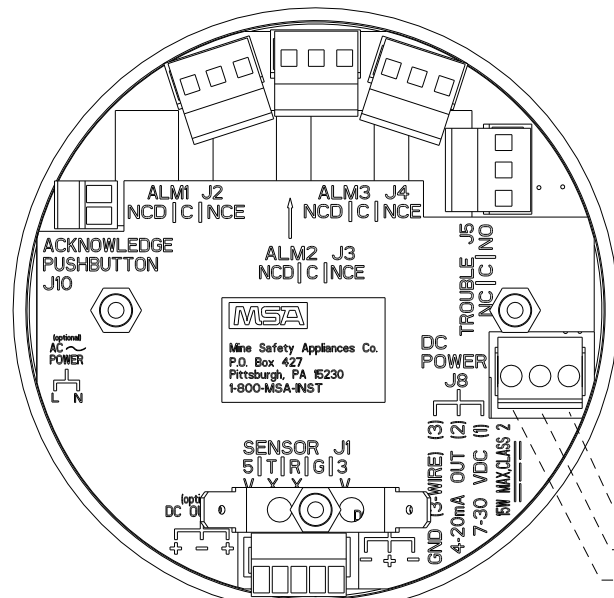


TABLE 3-1. PERFORMANCE SPECIFICATIONS		
TEMPERATURE RANGE	-20 TO +50°C (-4 TO +122°F)	
HUMIDITY	15 TO 95% RH, NON-CONDENSING	
HAZARDOUS AREA RATING	EXPLOSION-PROOF MODELS	CLASS I, DIV. 1 GROUPS A, B, C & D
POWER INPUT/ CONSUMPTION	9-36 VDC/8.4 WATTS MAX.	
TROUBLE RELAY CONTACTS (SPDT)	0.6A @ 125 VAC 0.6A @ 110 VDC 2A @ 30 VDC	THE RELAY WILL WORK ON 24VDC IF THE SWITCHING CURRENT OF THE DEVICE CONNECTED TO IT DOES NOT EXCEED 2 AMP.



MOUNTING STRAP METHOD
SEE NOTE 4
(OPTIONAL)



ULTIMA XE SENSOR/TRANSMITTER

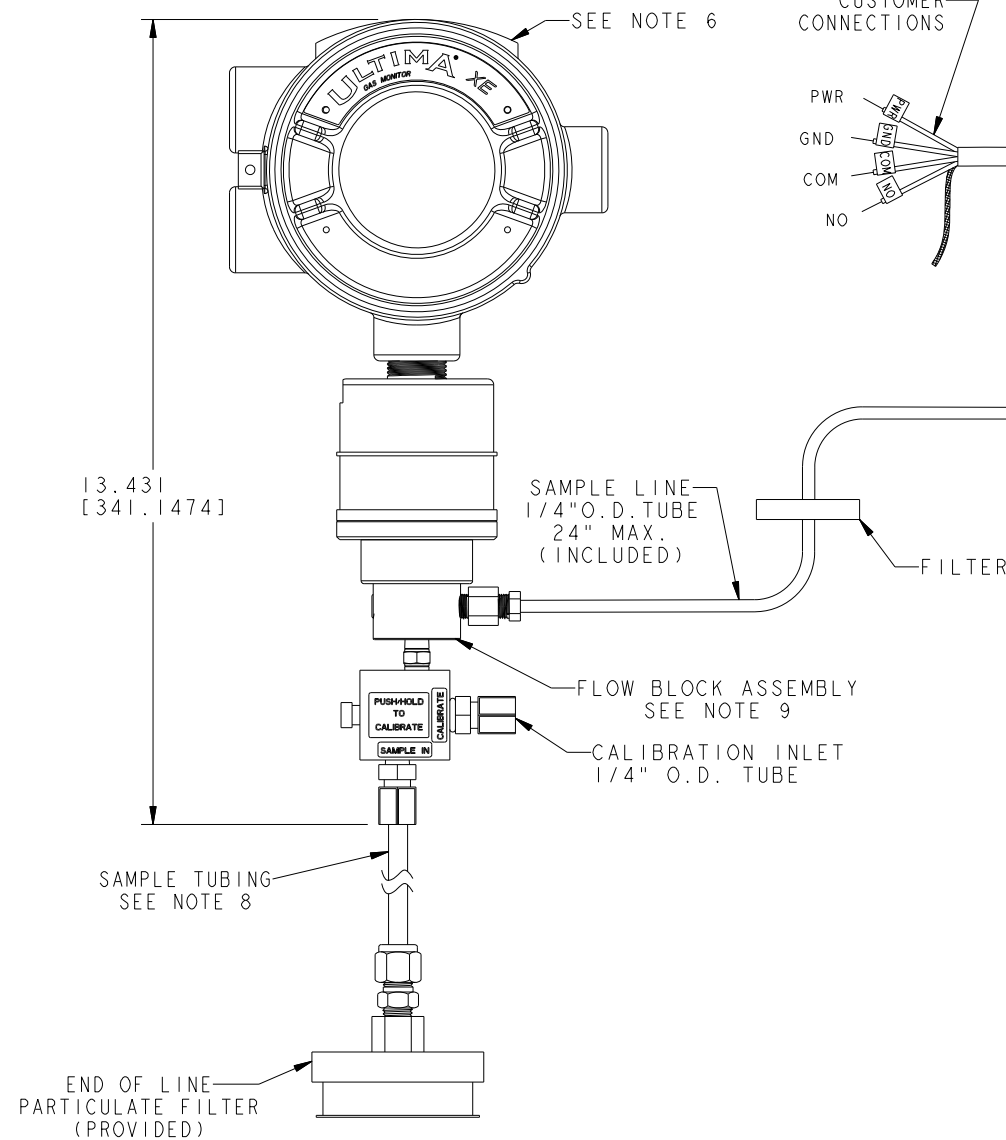
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P/N 10043264 SAMPLING MODULE ASSEMBLY, DC PUMPED VERSION, EXPLOSION PROOF

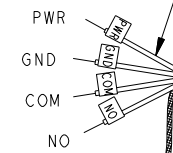
TYPICAL WIRING DIAGRAM FOR 3 WIRE ULTIMA X SENSOR AND SAMPLING MODULE IT CAN BE WIRED SEPARATELY

COLOR CODE			
BLACK = K	GREEN = G	BROWN = N	BLUE = B
RED = R	VIOLET = V	ORANGE = O	GRAY = A
YELLOW = Y	WHITE = W	PINK = P	TAN = T

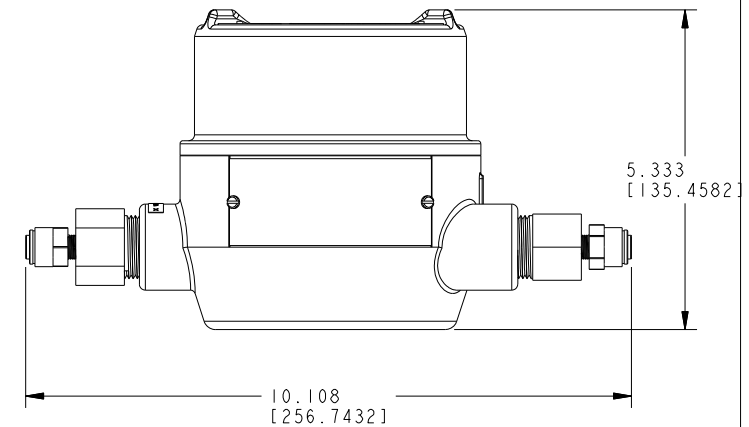
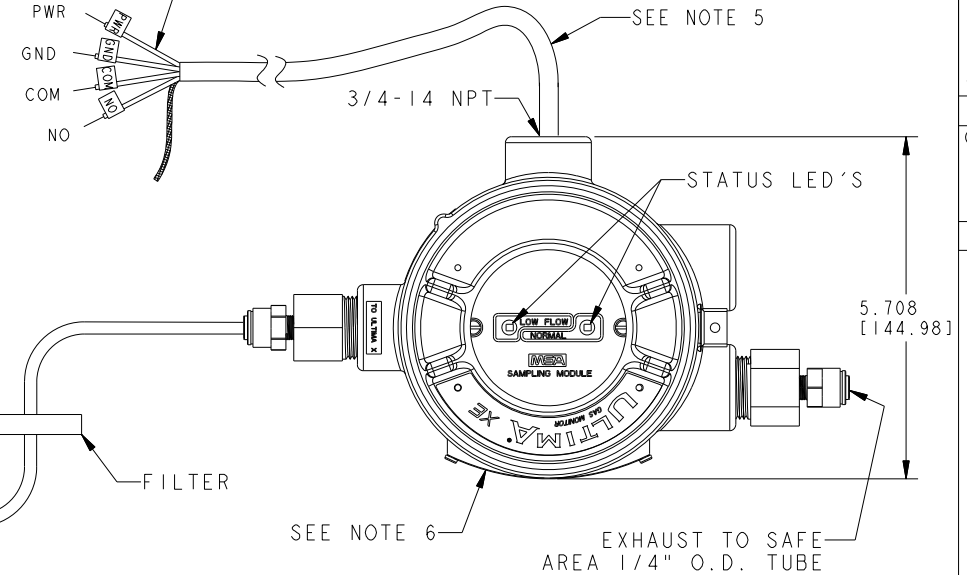
ULTIMA XE SENSOR/TRANSMITTER



CUSTOMER CONNECTIONS

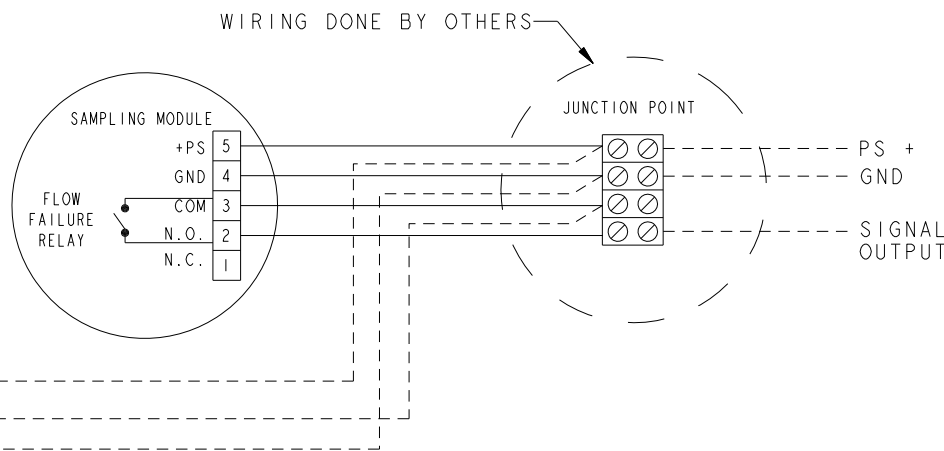


ULTIMA XE DC PUMPED MODULE
MATERIAL: 316 STAINLESS STEEL
WEIGHT = 9.8 LBS. (4.45 KG.)



NOTE:

- DIMENSIONS SHOWN IN INCHES (MILLIMETERS).
- INSTALL WITH SENSOR FACING DOWN.
- - - - INDICATES FIELD CONNECTIONS BY OTHERS.
- P/N 10047561 IS OPTIONAL MOUNTING STRAP KIT.
- WIRING HARNESS 24" LONG PRE-WIRED PROVIDED. IF NOT USABLE, WIRE TO TERMINALS ON CIRCUIT BOARD.
- CHECK THIS TAG FOR HAZARDOUS RATING.
- SAMPLE TUBING BY OTHERS. 1/4" O.D. MAX. LENGTH 100 FEET COMPATIBLE WITH GAS BEING SAMPLED.
- P/N 10041866 IS OPTIONAL FLOW BLOCK ASSEMBLY.



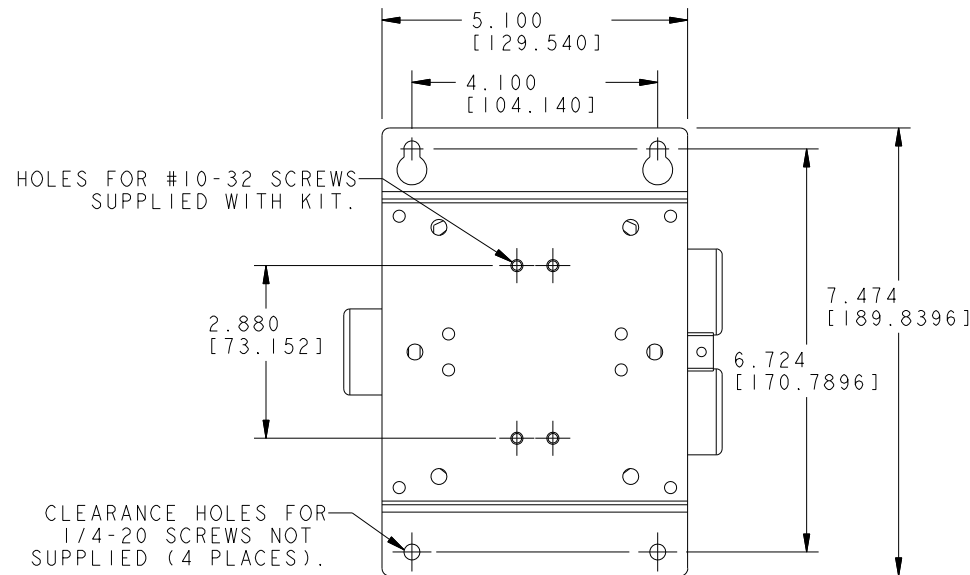
REVISIONS	
①	6-17-2009 INITIAL RELEASE EXTENSIVELY REVISED ADDED SHEET 2
②	12-18-2009 INITIAL RELEASE REVISED DRAWING TITLE, REMOVED "DC PUMPED VERSION" ADDED SHEET 3
③	11-15-2011 REVISED PUMP FLOW DIAGRAMS ON SHEET 3 ECO#7000003450A
MAY 03 2011	
NOV 15 2011	

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Production	3

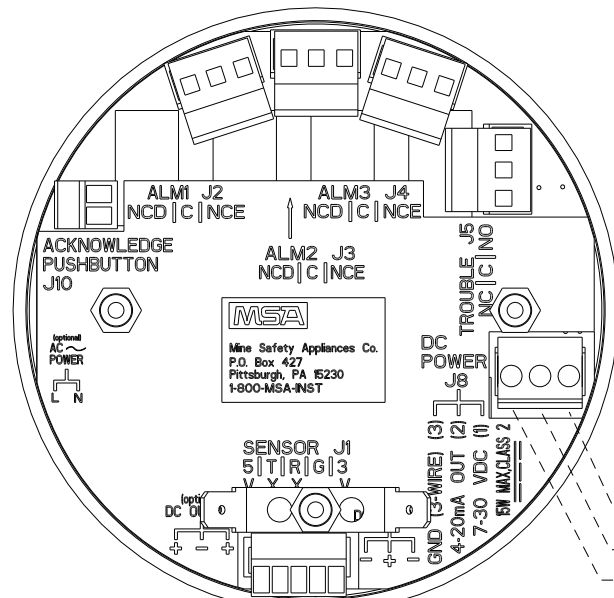
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	MSA STANDARD SHOP PRACTICES APPLY	APPROVAL AGENCY CODE: NO NIOSH ATTR. DOC.:	
	CODE SYMBOLS	JOB NO. 30002141 PH0730	
	CRITICAL Δ	DATE 12/12/02	
	MAJOR A Δ (NO MARK)	CHECKED BY E.ADIWINATA 3-23-11	
	MAJOR B Δ	PROJ. ENGR. E.ADIWINATA 3-23-11	
	100% INSPECTION Δ	QUALITY ASSURANCE J.DANNHARDT 4-15-11	
	TOLERANCES UNLESS OTHERWISE SPECIFIED	MANUFACTURING A.POLOCHAK 3-29-11	
	FRACTIONAL $\pm 1/64$	CADD REF: 10000015617	SCALE: 1.000
	2 PL DEC. ± 0.01		
	3 PL DEC. ± 0.005		
	ANGULAR ± 1 deg.	DOCUMENT NO.	SHEET 1 OF 3
	SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES	D SK	10000015617

**INSTALLATION OUTLINE,
ULTIMA XE SAMPLING MODULE**

TABLE 3-2. PERFORMANCE SPECIFICATIONS		
TEMPERATURE RANGE	-20 TO +50°C (-4 TO +122°F)	
HUMIDITY	15 TO 95% RH, NON-CONDENSING	
HAZARDOUS AREA RATING	EXPLOSION-PROOF MODEL	CLASS I, DIV. 1 GROUPS A, B, C & D
POWER INPUT/ CONSUMPTION	9-36 VDC/1.2 WATTS MAX.	
TROUBLE RELAY CONTACTS (SPDT)	0.6A @ 125 VAC 0.6A @ 110 VDC 2A @ 30 VDC	THE RELAY WILL WORK ON 24VDC IF THE SWITCHING CURRENT OF THE DEVICE CONNECTED TO IT DOES NOT EXCEED 2 AMP.



MOUNTING STRAP METHOD
 SEE NOTE 4
 (OPTIONAL)



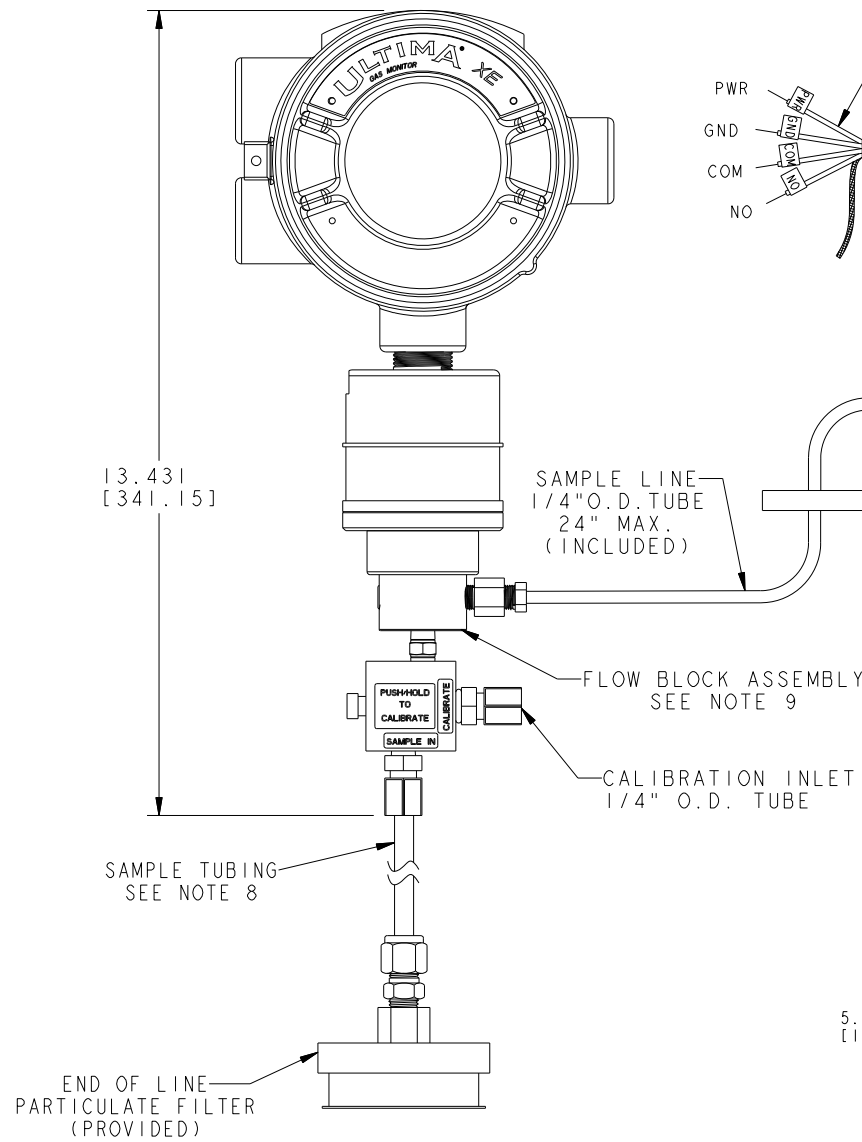
ULTIMA XE SENSOR/TRANSMITTER

QTY. P/N 10058101 SAMPLING MODULE ASSEMBLY, DC ASPIRATOR VERSION, EXPLOSION PROOF

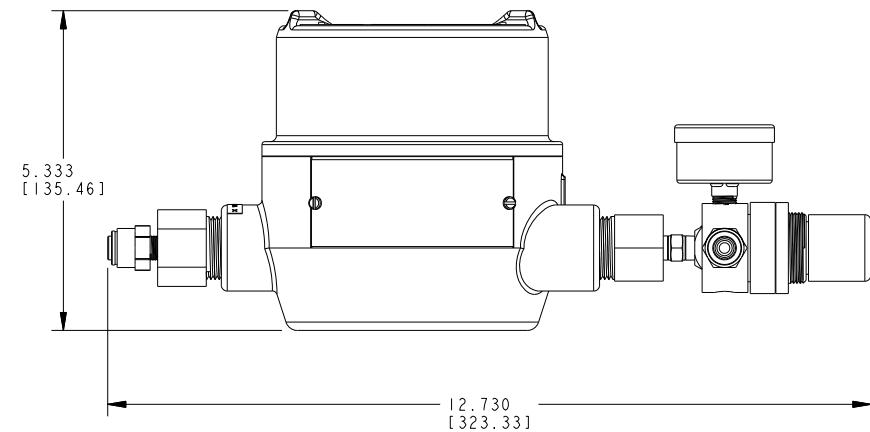
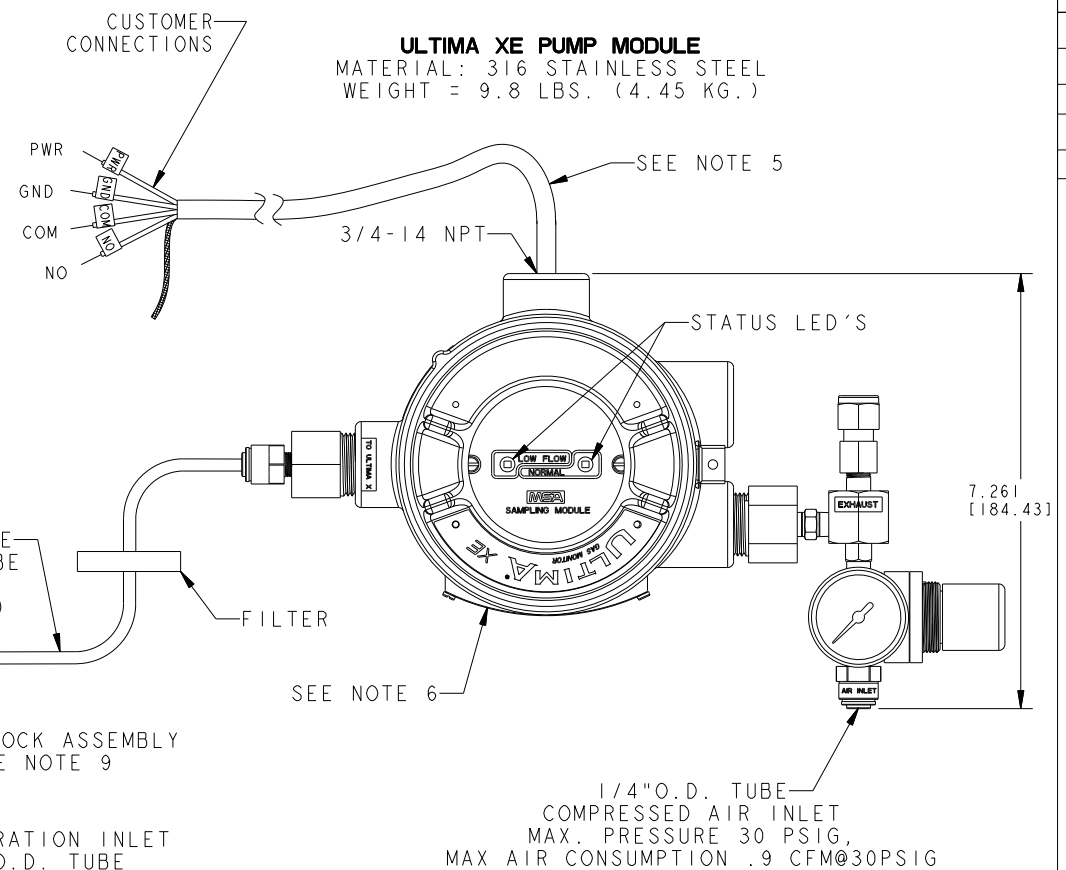
TYPICAL WIRING DIAGRAM FOR 3 WIRE ULTIMA X SENSOR AND SAMPLING MODULE IT CAN BE WIRED SEPARATELY

COLOR CODE			
BLACK = K	GREEN = G	BROWN = N	BLUE = B
RED = R	VIOLET = V	ORANGE = O	GRAY = A
YELLOW = Y	WHITE = W	PINK = P	TAN = T

ULTIMA XE SENSOR/TRANSMITTER

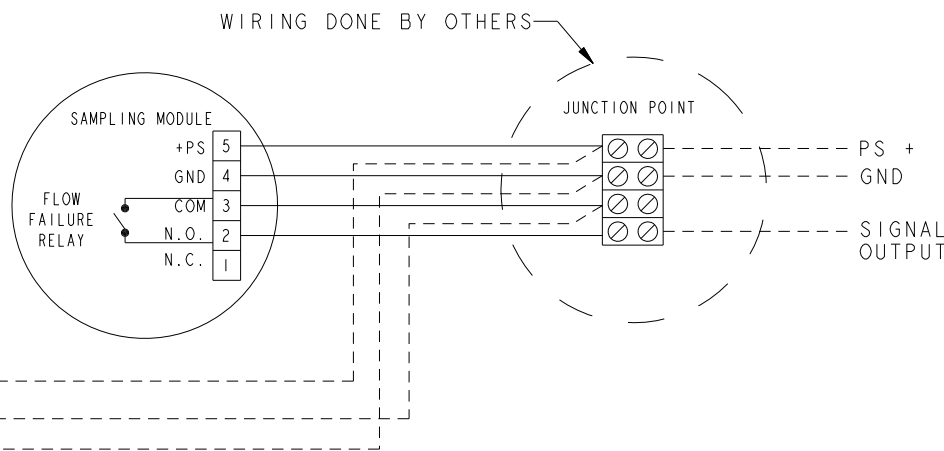


ULTIMA XE PUMP MODULE
 MATERIAL: 316 STAINLESS STEEL
 WEIGHT = 9.8 LBS. (4.45 KG.)



NOTE:

1. DIMENSIONS SHOWN IN INCHES (MILLIMETERS).
2. INSTALL WITH SENSOR FACING DOWN.
3. - - - - INDICATES FIELD CONNECTIONS BY OTHERS.
4. P/N 10047561 IS OPTIONAL MOUNTING STRAP KIT.
5. WIRING HARNESS 24" LONG PRE-WIRED PROVIDED. IF NOT USABLE, WIRE TO TERMINALS ON CIRCUIT BOARD.
6. CHECK THIS TAG FOR HAZARDOUS RATING.
8. SAMPLE TUBING BY OTHERS. 1/4" O.D. MAX. LENGTH 100 FEET COMPATIBLE WITH GAS BEING SAMPLED.
9. P/N 10041866 IS OPTIONAL FLOW BLOCK ASSEMBLY.

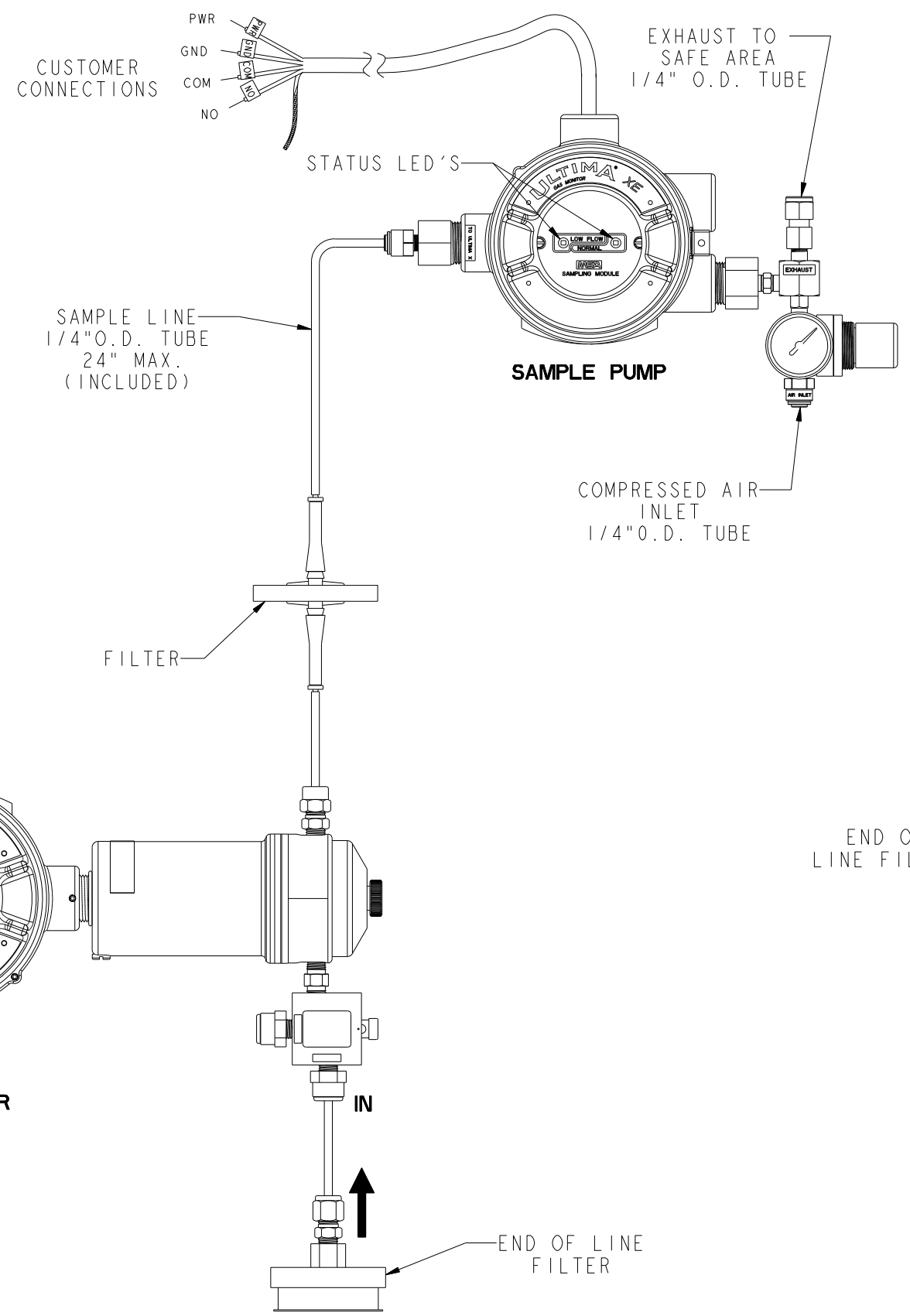


REVISIONS
REV. 1
REV. 2
MAY 03 2011
REV. 3
NOV 15 2011

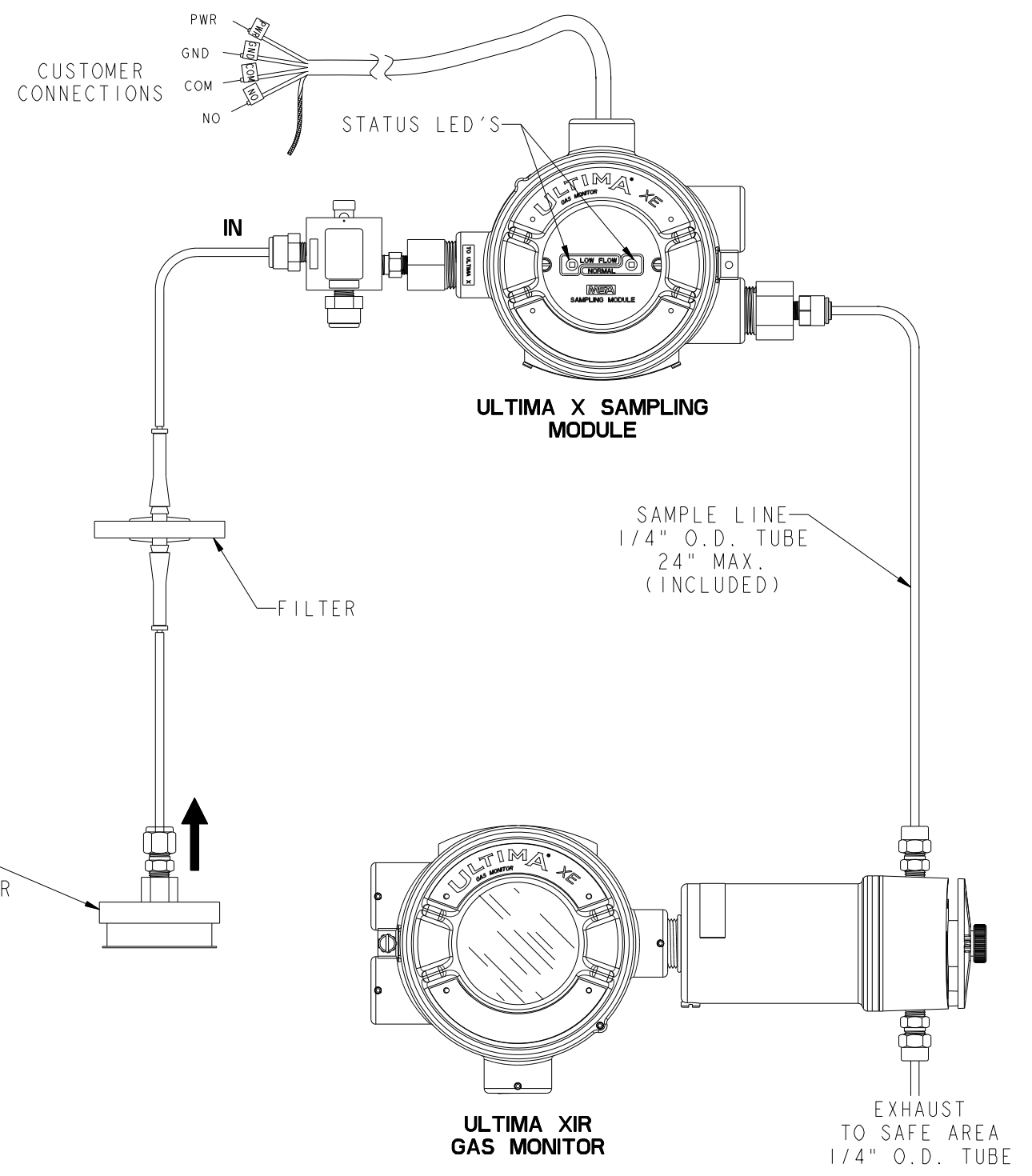
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MSA STANDARD SHOP PRACTICES APPLY	JOB NO. 30002141 PH0730 DATE 12/12/02 DRAWN BY LCR CHECKED BY E.ADIWINATA 3-23-11 PROJ. ENGR. E.ADIWINATA 3-23-11 QUALITY ASSURANCE J.DANNHARDT 4-15-11 MANUFACTURING A.POLOCHAK 3-29-11	APPROVAL AGENCY CODE: NO NIOSH ATTR. DOC.:	
CUSTOMER P.O. NO. _____ MSA NO. _____ LOCATION _____ TAG NO. _____ TOTAL NO. OF UNITS _____		INSTALLATION OUTLINE, ULTIMA XE SAMPLING MODULE	
FRACTIONAL ± 1/64 2 PL DEC. ± 0.01 3 PL DEC. ± 0.005 ANGULAR ± 1 deg. SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES		CADD REF: 10000015617	SCALE: 1.000
D SK		DOCUMENT NO. 10000015617	SHEET 2 OF 3

REVISIONS	
REV. 2	MAY 03 2011
REV. 3	NOV 15 2011



ULTIMA XIR and a ASPIRATED SAMPLING MODULE



ULTIMA XIR and a DC POWERED SAMPLING MODULE

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	MSA STANDARD SHOP PRACTICES APPLY	JOB NO. 30002141 PH0730	APPROVAL AGENCY CODE: NO NIOSH ATTR. DOC.:	
	CODE SYMBOLS	DRAWN BY LCR DATE 12/12/02	INSTALLATION OUTLINE, ULTIMA XE SAMPLING MODULE	
	CRITICAL Δ	CHECKED BY E.ADIWINATA 3-23-11		
	MAJOR A Δ MAJOR B Δ	PROJ. ENGR. E.ADIWINATA 3-23-11		
	100% INSPECTION Δ	QUALITY ASSURANCE J.DANNHARDT 4-15-11		
	TOLERANCES UNLESS OTHERWISE SPECIFIED	MANUFACTURING A.POLOCHAK 3-29-11	CADD REF: 10000015617	SCALE: 1.000
	FRACTIONAL $\pm 1/64$			
	2 PL DEC. ± 0.01			
	3 PL DEC. ± 0.005			
	ANGULAR ± 1 deg.			
	SEE MSA STANDARD SHOP PRACTICES FOR DRILLED HOLE TOLERANCES	DOCUMENT NO. D SK	10000015617	SHEET 3 OF 3

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Production	3