

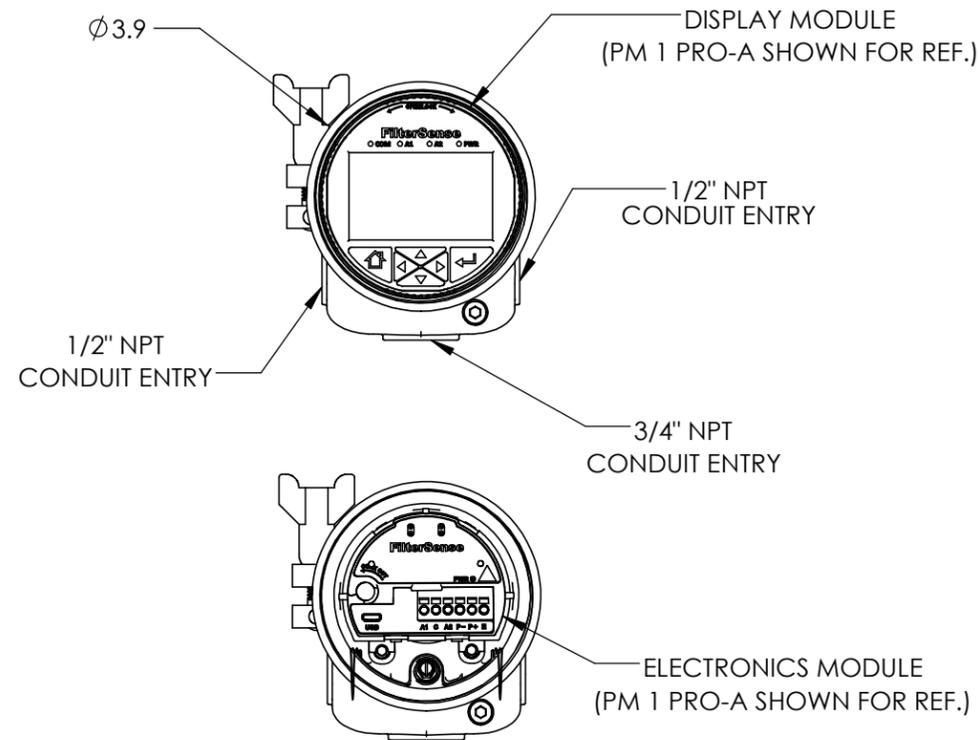
IMPORTANT INSTALLATION INFORMATION

- HAZARDOUS AREA LOCATIONS: VERIFY REQUIRED CLASS AND DIVISION AGAINST SPECIFICATION LISTED ON THE PROCESS DEVICE TAG.
- DO NOT INSTALL ANY EQUIPMENT THAT IS NOT TAGGED SUITABLE FOR THE AREA CLASSIFICATION.
- BEFORE INSTALLATION VERIFY THE DEVICE IS TAGGED SUITABLE FOR THE REQUIRED AMBIENT TEMPERATURE, PROCESS TEMPERATURE, PROCESS PRESSURE, AND WETTED MATERIALS.
- THIS DEVICE IS NOT DESIGNED FOR USE AS A FUNCTIONAL SAFETY DEVICE. THE DEVICE MUST NOT BE USED AS PART OF, OR AS AN INPUT TO A SAFETY SYSTEM.
- ADHERE TO NEC, CEC, NEMA, NFPA, OSHA INSTALLATION AND MAINTENANCE GUIDELINES AND ALL APPLICABLE LOCAL CODES.
- INSTALLATION AND SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL WHILE POWER IS DISCONNECTED AND THE PROCESS IS OFF.

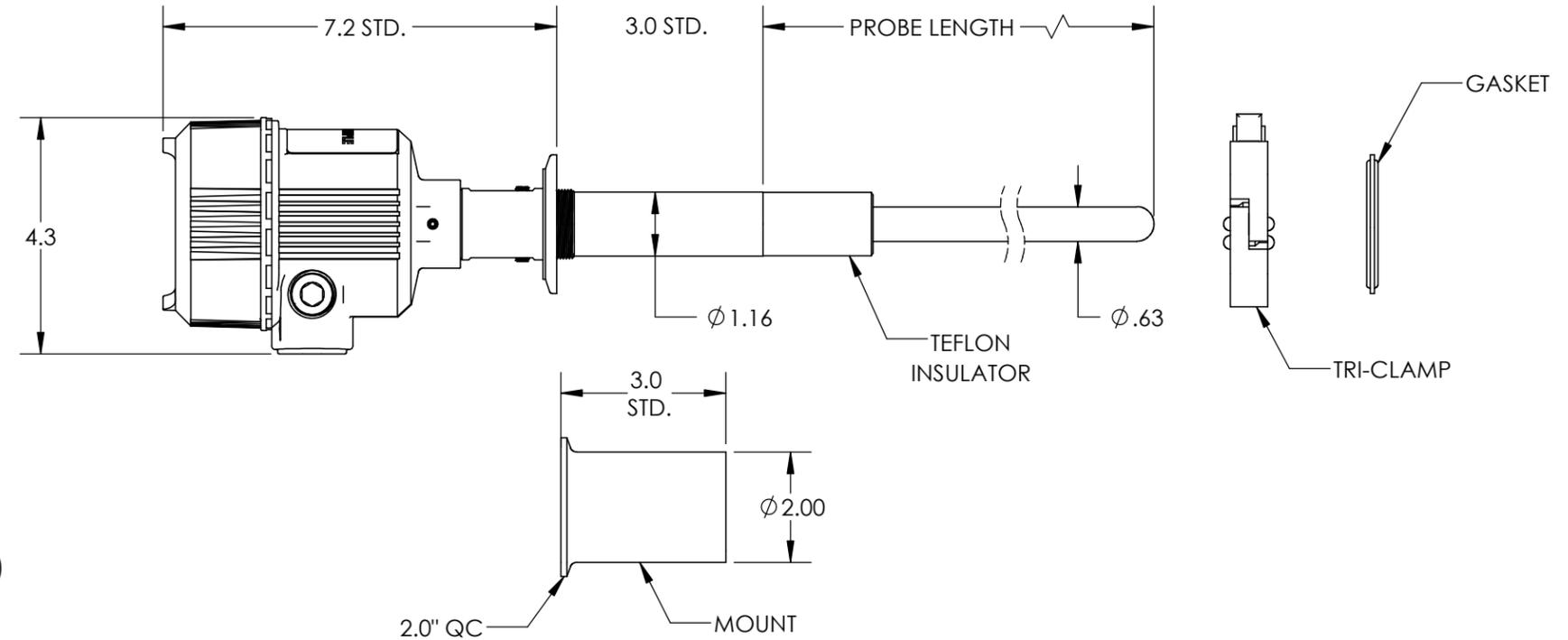
REVISIONS

REV.	DESCRIPTION	DATE	DRAWN BY
A	CREATED DRAWING	11/24/2020	BG

SENSOR HOUSING SHOWN WITH COVER REMOVED



SENSOR COMPONENTS



SHOWN IS QUICK CLAMP MOUNTING KIT, 2.0", 316L MQ20 INCLUDES WELD FERRULE, GASKET, AND CLAMP
CONTACT FACTORY FOR DIFFERENT MOUNTING OPTIONS

ORDER CODE

SEE SHEET 2 FOR TABLE

CUSTOMER

PO#

PROJECT REFERENCE

CUSTOMER SIGNATURE

DATE

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/32$
ANGULAR: MACH $\pm .25$
ANGULAR: BEND $\pm .5$
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL SEE NOTES

FINISH SEE NOTES

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	BG	11/24/2020
CHECKED	-	
ENG APPR.		
MFG APPR.		

PROPRIETARY AND CONFIDENTIAL

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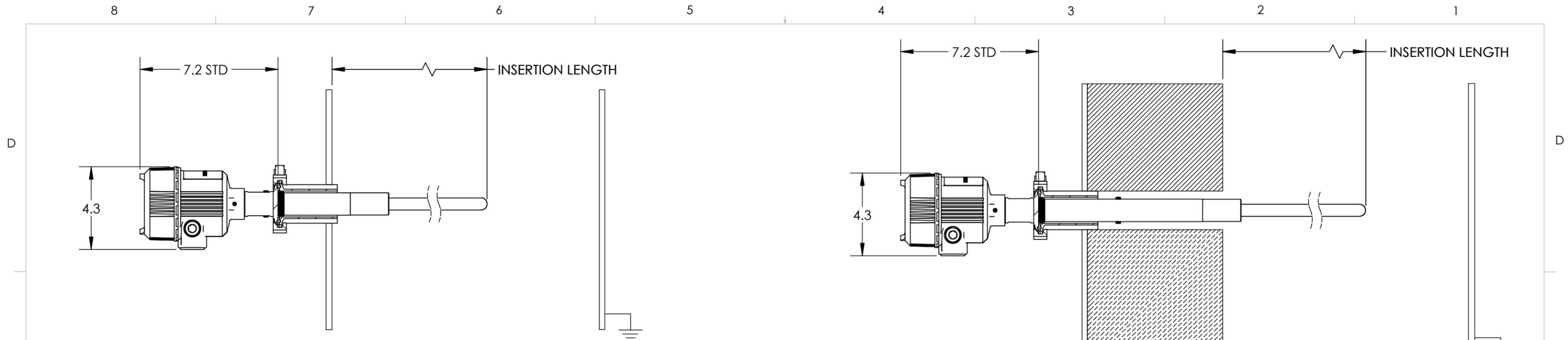
Auburn FilterSense LLC

TITLE:
**APPROVAL DRAWING,
PM 1 PRO PARTICULATE
MONITOR,
2" QC**

SIZE B	DWG. NO. 214-1014	REV A
SCALE = NONE	WEIGHT:	SHEET 1 OF 3

ORDERING CODES		
EXAMPLE MODEL NUMBER: PM 1 PRO-T-BT-K-R5-G-N4X-Q20-E6-T42-P0-L36-B-MQ20		
DESCRIPTION	CODE	SPECIFICATION
DynaCHARGE PM 1 PRO PARTICULATE MONITOR	PM 1 PRO-T PM 1 PRO-A PM 1 PRO-AT	TRANSMITTER (4-20 mA), 2-WIRE LOOP POWER ALARM (2 RELAYS), UNIVERSAL AC/DC ALARM AND TRANSMITTER, UNIVERSAL AC/DC (2 RELAYS AND POWERED 4-20mA)
COMMUNICATIONS	BT H W WB M P	BLUETOOTH WITH DEVICELINK PRO HART WITH DTM SOFTWARE WIRELESS HART (REQUIRES H) WIRELESS HART WITH BATTERY PWR (REQUIRES H) MODBUS RTU (REQUIRES AT) PROFIBUS DP (REQUIRES AT) (PENDING RELEASE)
FUNCTIONALITY	N K L	DEVICE DIAGNOSTICS AUTOMATIC EPA SELF-CHECKS BASIC INTERNAL DATA LOG
RESOLUTION AND RANGE	R5 R6 R9	0.5 pA, RANGE 0 TO 5000pA 5.0 pA, RANGE 0 TO 5,000pA 10.0 pA, RANGE 0 TO 100,000pA
AREA CLASSIFICATION	G H2 H1	ORDINARY/GENERAL PURPOSE ONLY (APPROVAL PENDING) HAZARDOUS LOCATIONS, CLASS II, DIV 2, (APPROVAL PENDING FOR INTEGRAL AND REMOTE) ORDINARY/GENERAL PURPOSE WITH INTEGRAL BARRIER (APPROVAL PENDING FOR REMOTE)
ENCLOSURE	N4X N4XR	NEMA 4X/IP66 ALUMINUM, WINDOW NEMA 4X/IP66 ALUMINUM, WINDOW, REMOTE ELECTRONICS VERSION
NIPPLE ASSEMBLY	Q20	2.0" QUICK CLAMP, 316L
NIPPLE EXTENSION	E6 IX	6" EXTERNAL NIPPLE EXTENSION INTERNAL NIPPLE EXTENSION (6", 12", OR 18")
PROCESS TEMPERATURE	T42 T44 T45	-40 °F TO 250 °F (-40 °C TO 121 °C) MAX -40 °F TO 450 °F (-40 °C TO 232 °C) MAX -40 °F TO 500 °F (-40 °C TO 260 °C) MAX
PROCESS PRESSURE	P0 P1	FULL VACUUM TO 10 PSI (0.69 BAR) MAX FULL VACUUM TO 100 PSI (6.9 BAR) MAX
PROBE LENGTH	LXX	1.5 TO 48" (3.8 TO 121.9cm)
PROBE TYPE	B C T	BARE PROBE FULLY INSULATED PROBE (TEFLON COATING) FULLY INSULATED PROBE (TEFLON LAYER)
PROCESS MOUNTING KIT	MQ20 MQ20TN MQ20TG -Z	QUICK CLAMP MOUNTING KIT, 2.0 IN, 316L, (WELD FERRULE, GASKET, CLAMP) QUICK CLAMP MOUNTING KIT, 2.0 IN, 316L, (1.5" NPT FERRULE, GASKET, CLAMP) QUICK CLAMP MOUNTING KIT, 2.0 IN, 316L, (1.5" BSPP FERRULE, GASKET, CLAMP) EXTENSION (-Z = OPTIONAL INCREMENTS OF 6" UP TO 18")

	NAME	DATE	Auburn FilterSense LLC
DRAWN	BG	11/24/2020	
CHECKED	-		
ENG APPR.			
MFG APPR.			TITLE: APPROVAL DRAWING, PM 1 PRO PARTICULATE MONITOR, 2" QC
PROPRIETARY AND CONFIDENTIAL			
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DWG. NO. 214-1014		REV A	
SCALE = NONE	WEIGHT:	SHEET 2 OF 3	

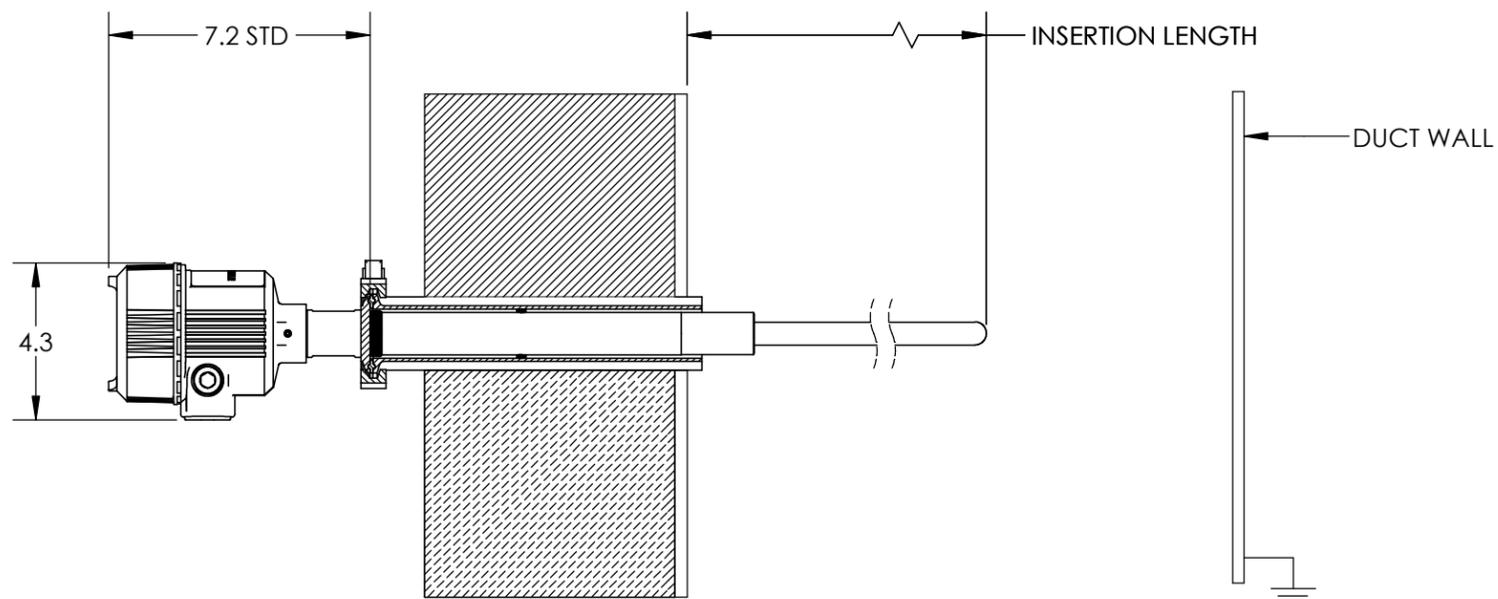


STANDARD INSTALLATION

SHOWN MODEL NUMBER: PM 1 PRO-T-BT-K-R5-G-N4X-Q20-T42-P0-LXX-B-MQ20

INTERNAL EXTENSION INSTALLATION

SHOWN MODEL NUMBER: PM 1 PRO-T-BT-K-R5-G-N4X-Q20-IXX-T42-P0-LXX-B-MQ20



EXTENDED MOUNT INSTALLATION

SHOWN MODEL NUMBER: PM 1 PRO-T-BT-K-R5-G-N4X-Q20-IXX-T42-P0-LXX-B-MQ20-Z

INSULATION/STRUCTURE

SEE MANUAL FOR INSTALLATION INSTRUCTION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL $\pm 1/32$ ANGULAR: MACH $\pm .25$ ANGULAR: BEND $\pm .5$ TWO PLACE DECIMAL $\pm .01$ THREE PLACE DECIMAL $\pm .005$	NAME	DATE	Auburn FilterSense LLC TITLE: APPROVAL DRAWING, PM 1 PRO PARTICULATE MONITOR, 2" QC	
	DRAWN	BG		11/24/2020
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INTERPRET GEOMETRIC TOLERANCING PER:	PROPRIETARY AND CONFIDENTIAL			
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FINISH	SEE NOTES	SIZE B	DWG. NO. 214-1014	
DO NOT SCALE DRAWING		SCALE = NONE	WEIGHT:	
			REV A	
			SHEET 3 OF 3	