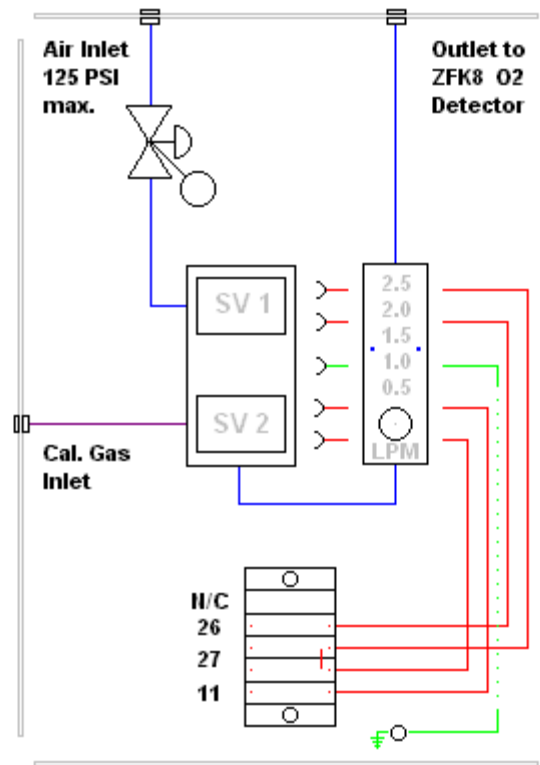


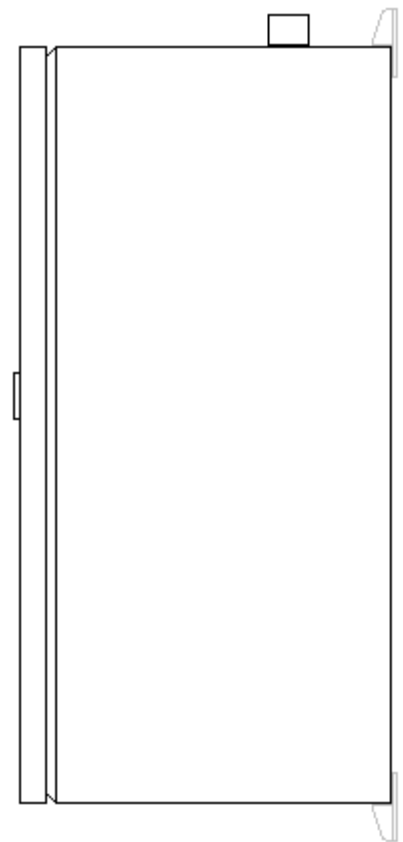
**Inlet and Outlet Connections**  
 1/4" IPTF Conduit - TBD  
 Use clean dry instrument air

**Wall Mount 12x10x6**  
**NEMA 4 Enclosure**  
**Painted Steel Finish**

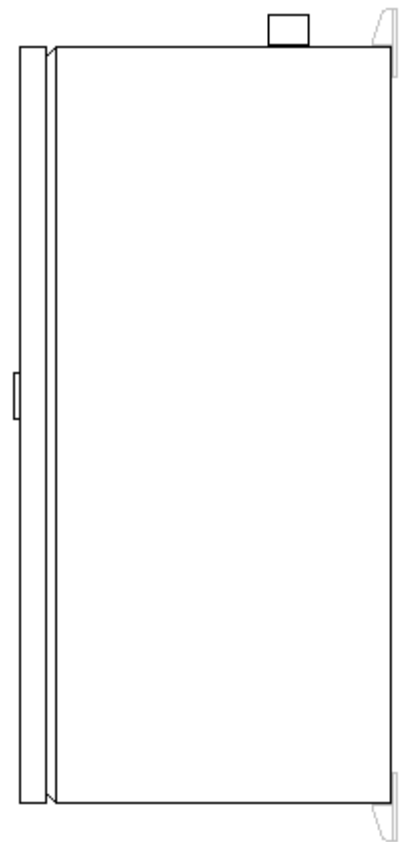
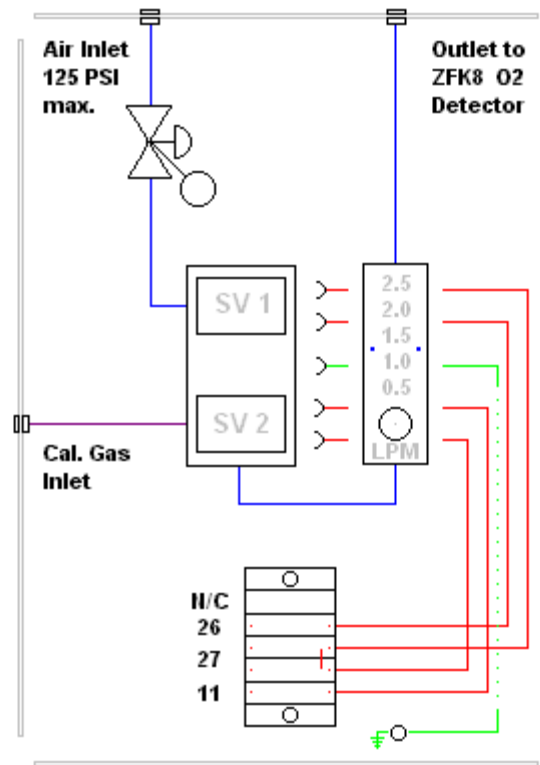
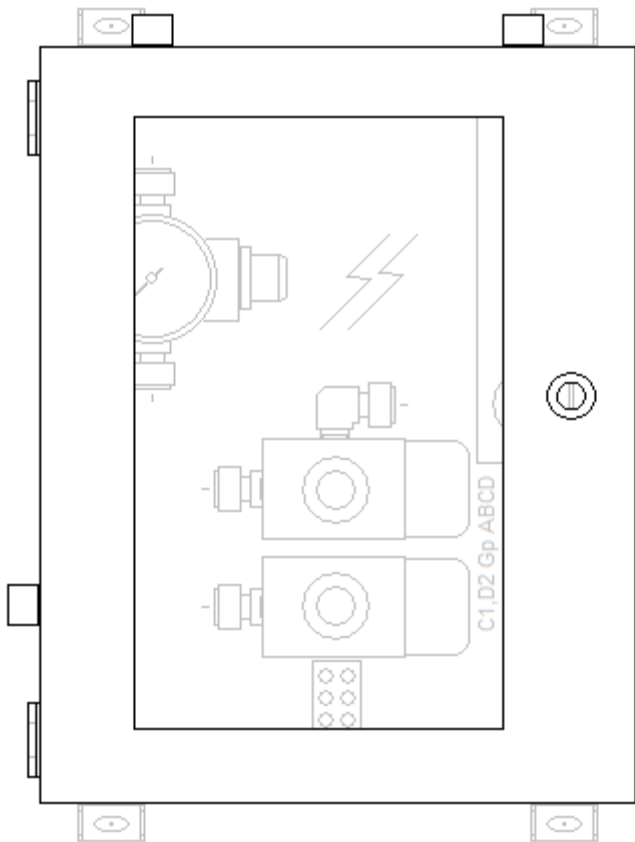
**4 - Mounting Feet**  
**CL/CL Dimension**  
**12.75 x 7.44 x 0.25"**



Set Point : . . .



<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 3
ZKM - Auto Verification Unit - GP	
ZKM-DS-010	Date: 01/16/10



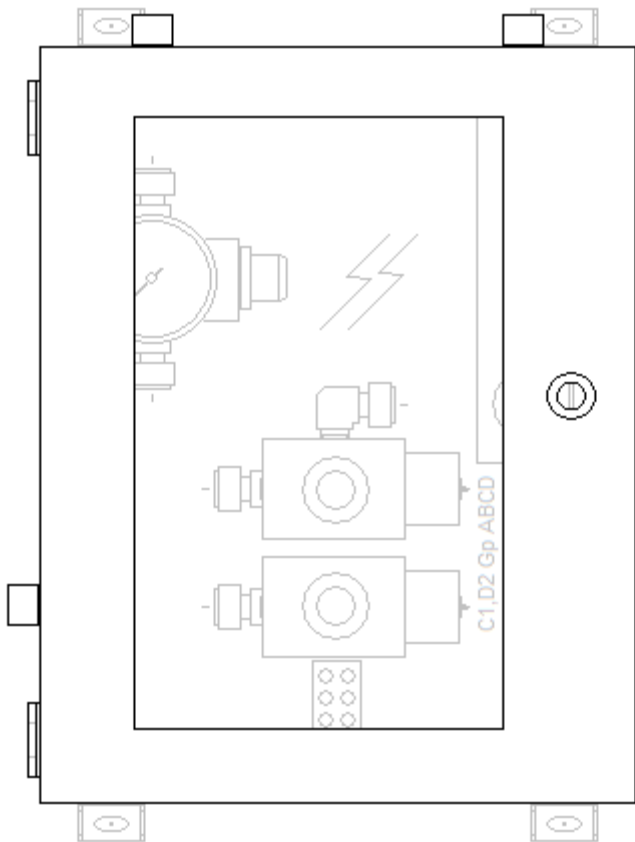
Set Point : . . .

**Inlet and Outlet Connections**  
 1/4" IPTF      Conduit - TBD  
 Use clean dry instrument air

**Wall Mount 12x10x6**  
**NEMA 4 Enclosure**  
**Painted Steel Finish**

**4 - Mounting Feet**  
**CL/CL Dimension**  
**12.75 x 7.44 x 0.25"**

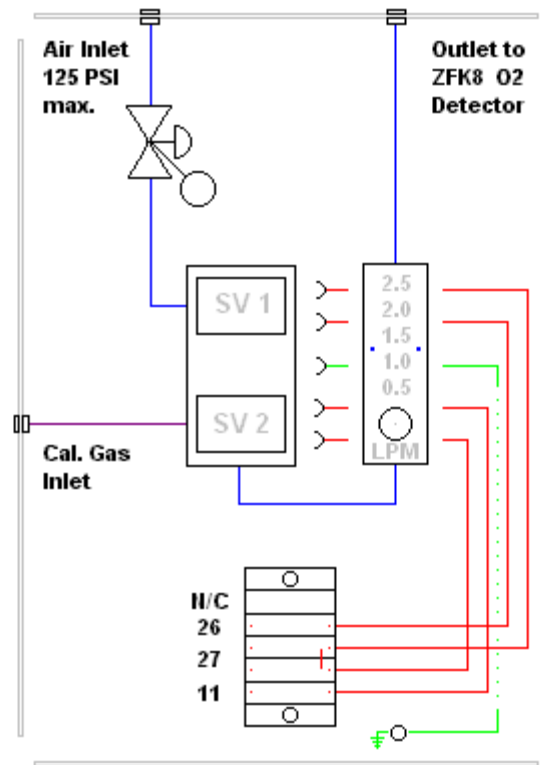
<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 3
ZKM - Auto Verification Unit (C1,D2)	
ZKM-DS-010	Date: 01/16/10



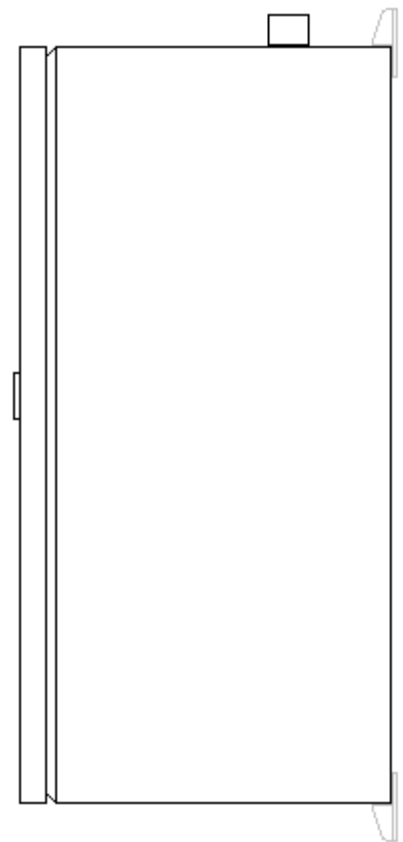
**Inlet and Outlet Connections**  
 1/4" IPTF Conduit - TBD  
 Use clean dry instrument air

**Wall Mount 12x10x6**  
**NEMA 4 Enclosure**  
**Painted Steel Finish**

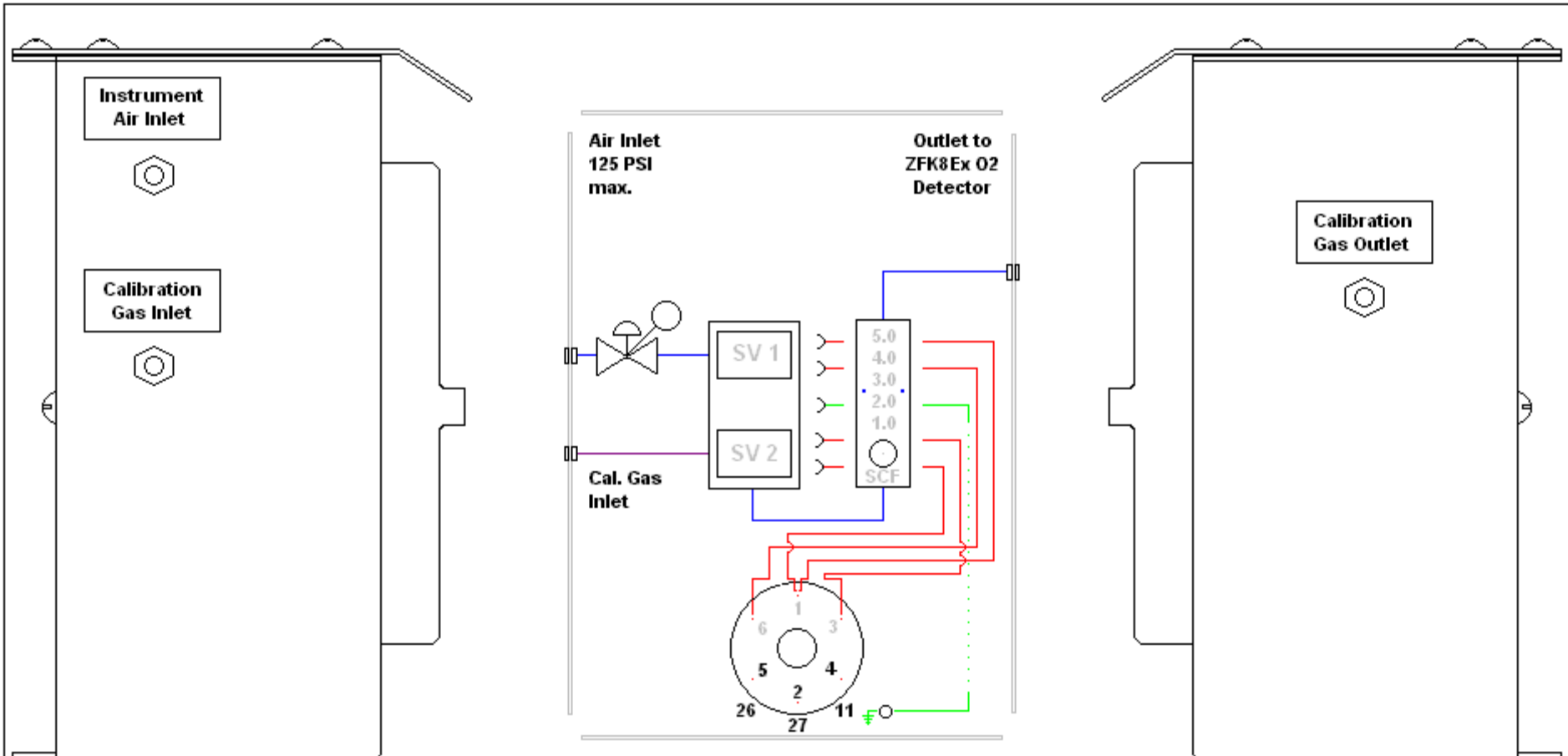
**4 - Mounting Feet**  
**CL/CL Dimension**  
**12.75 x 7.44 x 0.25"**



Set Point : . . .



<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 4
ZKM - Auto Verification Unit (C1,D2)	
ZKM-DS-010	Date: 01/16/10



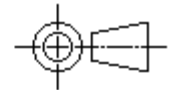
Set Point : . . .

Set Pressure Regs to 15 PSI  
 Inlet and Outlet Connections  
 1/4" Tube      Conduit - TBD  
 Use clean dry instrument air

Overall Panel Size:  
 13.75" x 8" x 6.25"  
 NEMA 4 Components  
 Stainless Steel 3RX Shelter

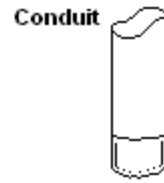
4 - Mounting Holes  
 0.345" Clear (5/16")  
 CL/CL Dimension  
 7" x 2.875"

<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 0
ZKM - Auto Verification Unit (C1,D1)	
ZKM-DS-020	Date: 8/16/21



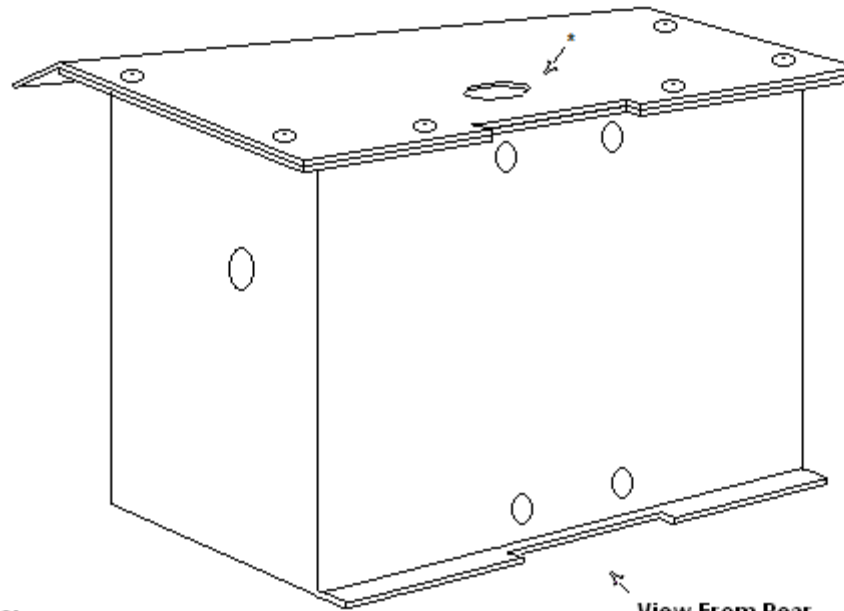
**Note:**  
Consider Using A Conduit  
Union To Speed Any Future  
AVU Service Requirements

**Note:**  
Use Approved Conduit  
Seals According To NEC  
And National Codes...



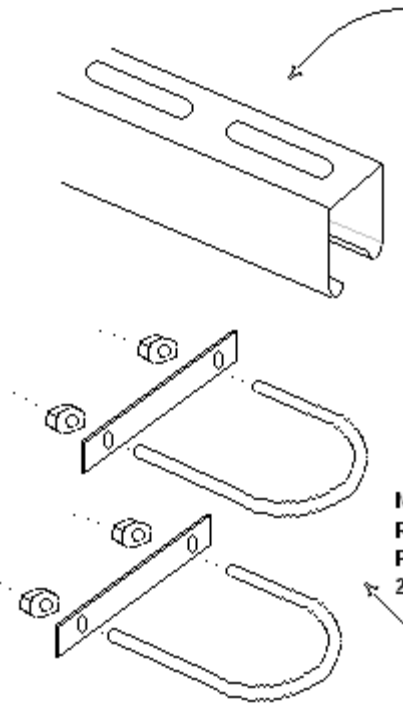
2" Pipe Mount

Rain Cover Top



View From Rear

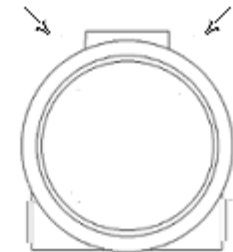
**Note:**  
Recommended  
Strut Channel  
Mounting



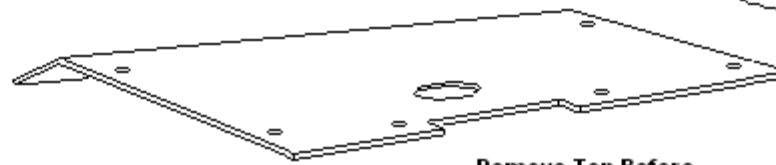
**Note:**  
Recommended  
Pipe Bracket:  
2" (Holes 2 7/8")

**Overall Panel Size:**  
13.75" x 8" x 6.25"  
**Inner Panel Size:**  
11" x 8" x 4.75"  
**Unit Weight:**  
12lb

**Brace HKB Box During Conduit  
Installation To Avoid Damage!**

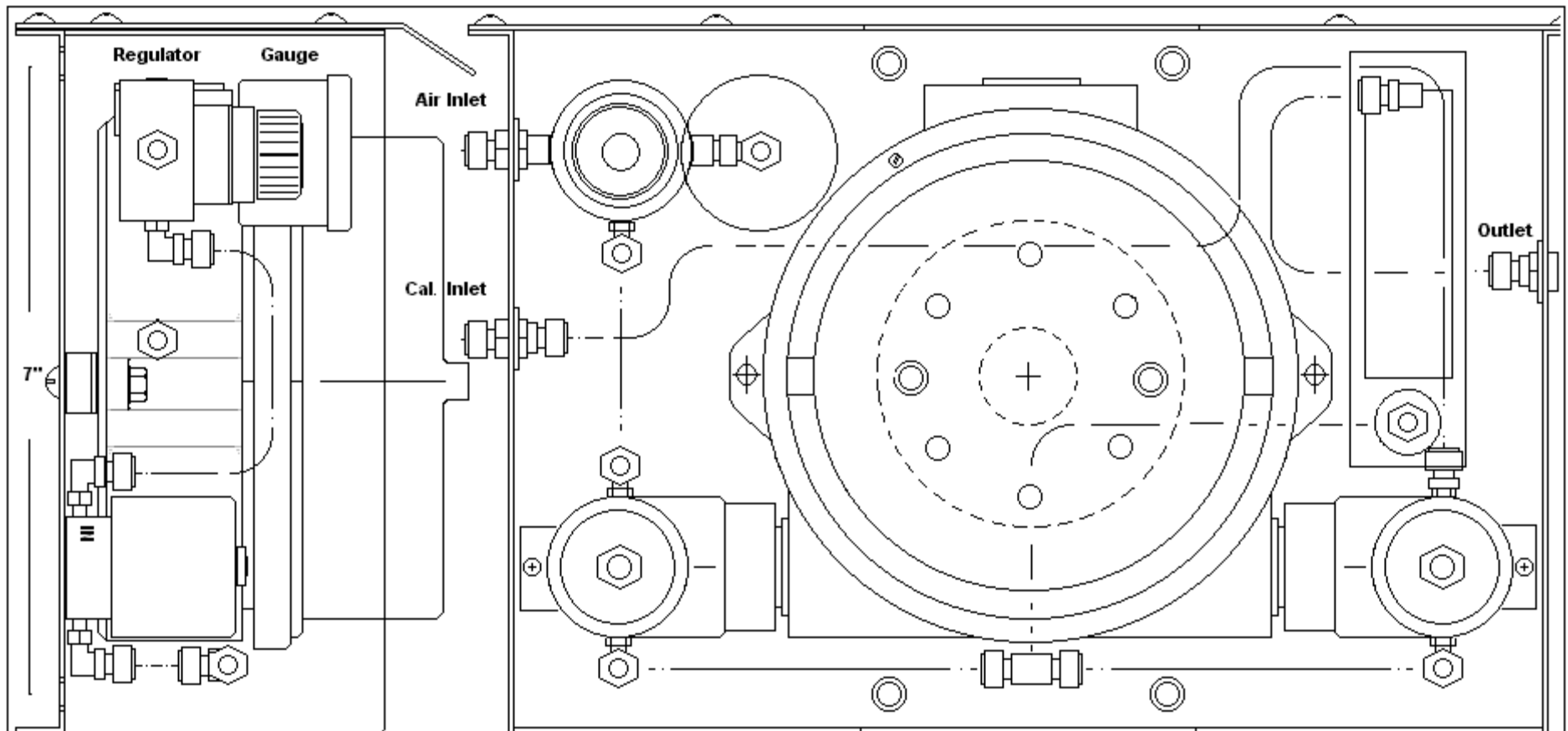


**Use Putty To Seal  
Conduit Entry Hole  
After Installation**



**Remove Top Before  
Conduit Installation**

<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 0
ZKM - Auto Verification Unit (C1,D1) Remote Mounting Parts Drawing	
ZKM-DS-020	Date: 8/16/21



Parts List:	Qty:
1/4" SS Tube	66"
Connector 1/4" T x 1/8" NPTM	x 2
Elbow 90° 1/4" T x 1/8" NPTM	x 5
Bulkhead 1/4" T x 1/4" NPTM	x 1
Bulkhead 1/4" T x 1/4" T	x 2
Connector Tee 1/4" T	x 1
Port Adapt 1/4" T x 1/8" NPTF	x 1
Reduc' Bush 1/4" NPTM x 1/8" NPTF	x 1
Bulkhead Retainer 1/4"	x 3

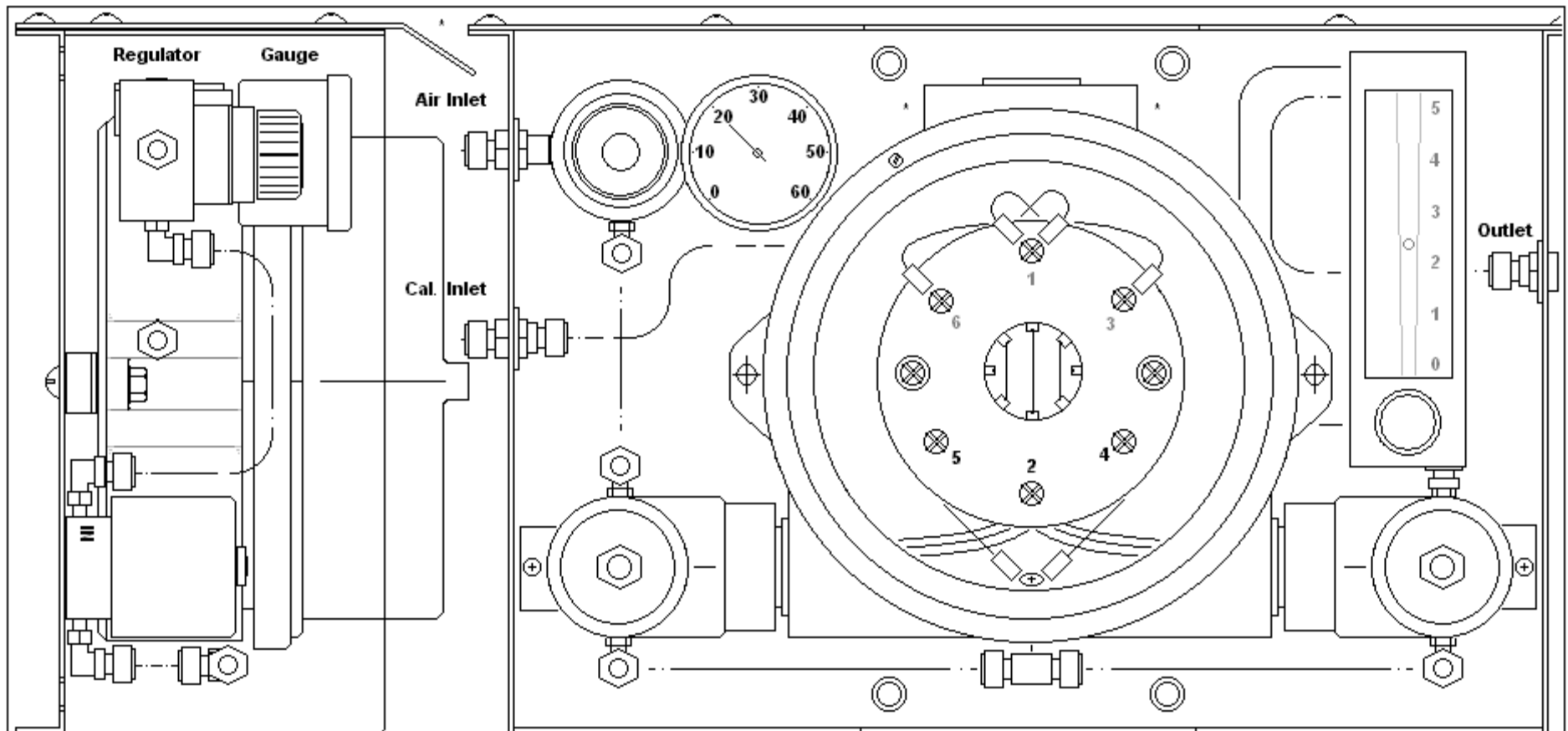
Parts List:	Qty:
Killark HKB-20	x 1
Regulator & 60psi Gauge	x 1
Flowmeter 0-5 Scfh	x 1
Solenoid Valve H/C 120V	x 2
Reduc' Bush 3/4" x 1/2"	x 2
Close Nipple 1/2" NPT	x 2
Plug SS 1/8" NPT	x 1
Solenoid Mtg. Plates	x 2
Flowmeter Mtg. Bracket	x 1

Optional 2" Pipe Brackets x 2

2.812"

**Overall Panel Size:**  
13.75" x 8" x 6.25"  
**Inner Panel Size:**  
11" x 8" x 4.75"

<b>DELTA INSTRUMENT LLC</b> Northvale, NJ 07647.	
Job:	Rev: 0
ZKM - Auto Verification Unit (C1,D1) Parts Listing+Dimensional Drawing	
ZKM-DS-020	Date: 8/16/21



**Operational Details:**

1. Set Air Pressure To 10-20 PSI
2. Set Cal Cyl Reg At Same Value
3. Set Flow To 2.5 Scfh (1 LPM)

**Area & Power Ratings:**

C1,D1 Grp.A,B,C&D  
Solenoid 1.8W @ 115V/60Hz

**Wiring Diagram:**

- |                        |            |                |
|------------------------|------------|----------------|
| AVU Term#              | Cust Term# | ZKM Term#      |
| 6. Air Solenoid (Span) | 5.         | #26 Hot        |
| 1. Air Solenoid (Span) | 2.         | #27 II Com     |
| 1. Gas Solenoid (Zero) | 4.         | #27 II         |
| 3. Gas Solenoid (Zero) | 4.         | #11 Hot        |
|                        |            | Ground Term. ⊕ |

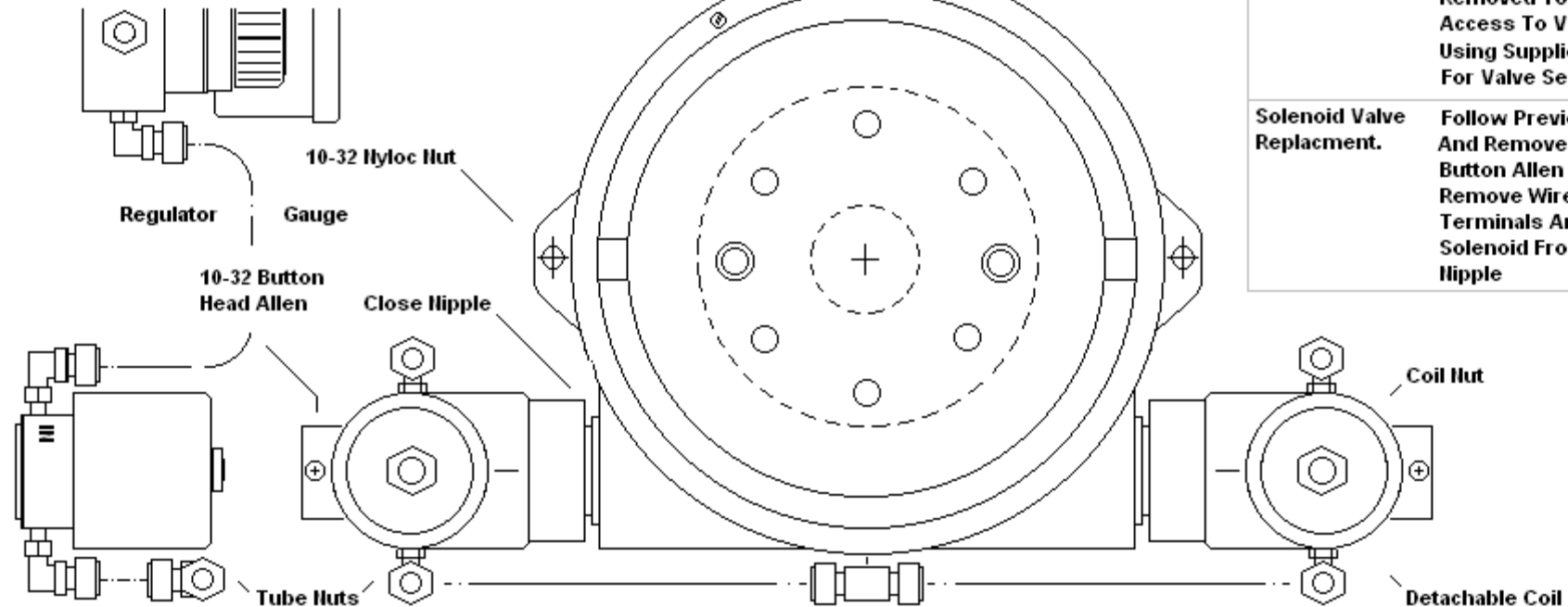
**Note:**

Remove Cover ^ For Conduit Installation  
Brace HKB Top ^^ During Tightening Ops.

**DELTA INSTRUMENT LLC**  
Northvale, NJ 07647.

Job:	Rev: 0
ZKM - Auto Verification Unit (C1,D1) Operational+Field Wiring Diagram	
ZKM-DS-020	Date: 8/16/21

This AVU Does Not Need Any Routine Maintenance During Normal Operation. The Unit Has Been Designed For Ease Of Service Should It Become Necessary... All Tubing Removable Without Bending, Easily Removable Solenoid Coils (Valve Bodies + Tubing All Stays In Place) And Wall/Pipe Mounted With A Small Spatial Form Factor.



**Solenoid Details:**  
 ELW52V8DCCP-120/60  
 U.L. Listed C1, D1  
 Gp. A,B,C&D  
 24" Leads  
 CV=0.134  
 Coil# 5C-16-K24

--All Units Are Leak Checked--  
 The Solenoid Valves Can Be Leak Checked By Introducing Pressure At The Two Inlets And The Outlet Connection Using A Squeeze Bulb Calibrator - At About 1-2 PSIG.

**Service Procedure:**

<b>Solenoid Valve Passing Gas.</b>	Remove Tube Nuts 10-32 Nylloc Nuts & Solenoid Coil Nuts. If AVU Conduit Has A Union Connection Then The Box Complete With Solenoid Coils Can Be Removed To Allow Access To Valve Seats Using Supplied Wrench For Valve Seat Cleaning
<b>Solenoid Valve Replacment.</b>	Follow Previous Instr. And Remove 10-32 Button Allen Screws Remove Wires From Terminals And Remove Solenoid From Close Nipple

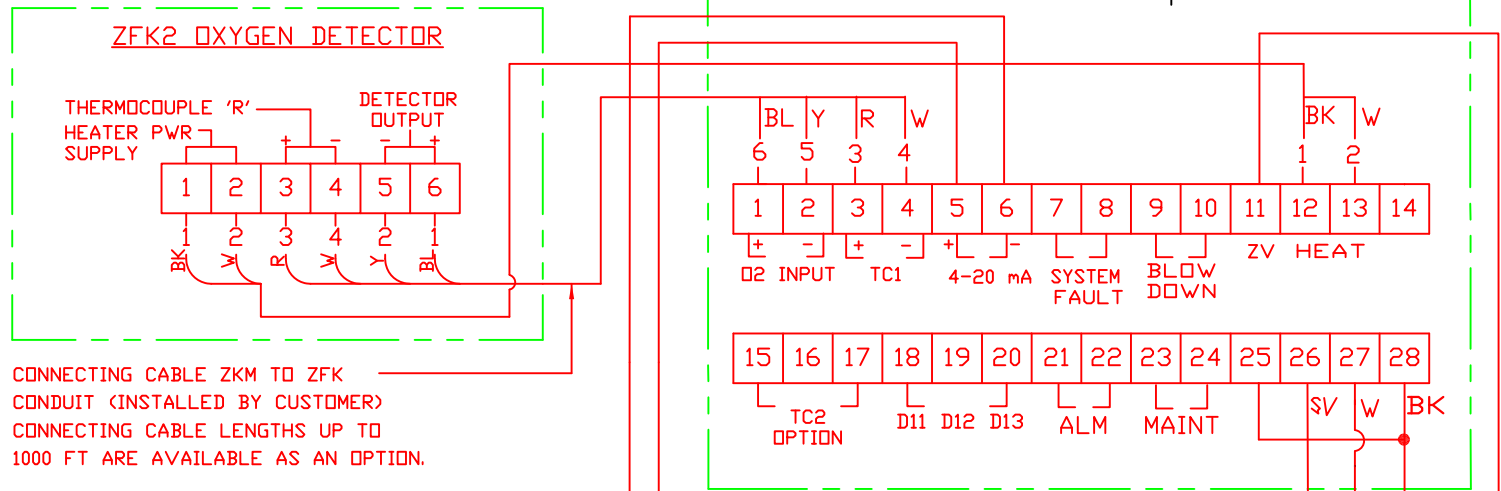
**DELTA INSTRUMENT LLC**  
 Northvale, NJ 07647.

<b>Job:</b>	<b>Rev: 0</b>
ZKM - Auto Verification Unit (C1,D1) Solenoid Valve Servicing Notes	
ZKM-DS-020	Date: 8/16/21



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

**NOTES:**  
 THE ANALYZER SHOULD BE PIPED,  
 WIRED AND GROUNDED IN ACCORDANCE  
 WITH ALL LOCAL CODES AND ORDANCES.

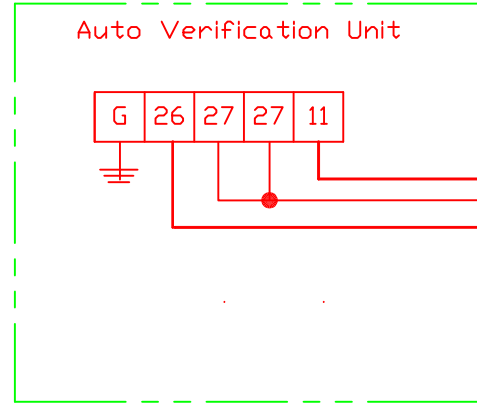


CONNECTING CABLE ZKM TO ZFK  
 CONDUIT (INSTALLED BY CUSTOMER)  
 CONNECTING CABLE LENGTHS UP TO  
 1000 FT ARE AVAILABLE AS AN OPTION.

\*  
 4-20mADC  
 OUTPUT  
 (ISOLATED)  
 MAX LOAD  
 500 OHMS

TERMINALS 25 & 28 MUST  
 BE JUMPED FOR USE WITH AVU

115 VAC  
 60HZ  
 220VA



Delta Instrument LLC			
ZKM Auto Verification Unit Wiring			
SIZE	FSCM NO.	DWG NO.	REV
SCALE			SHEET