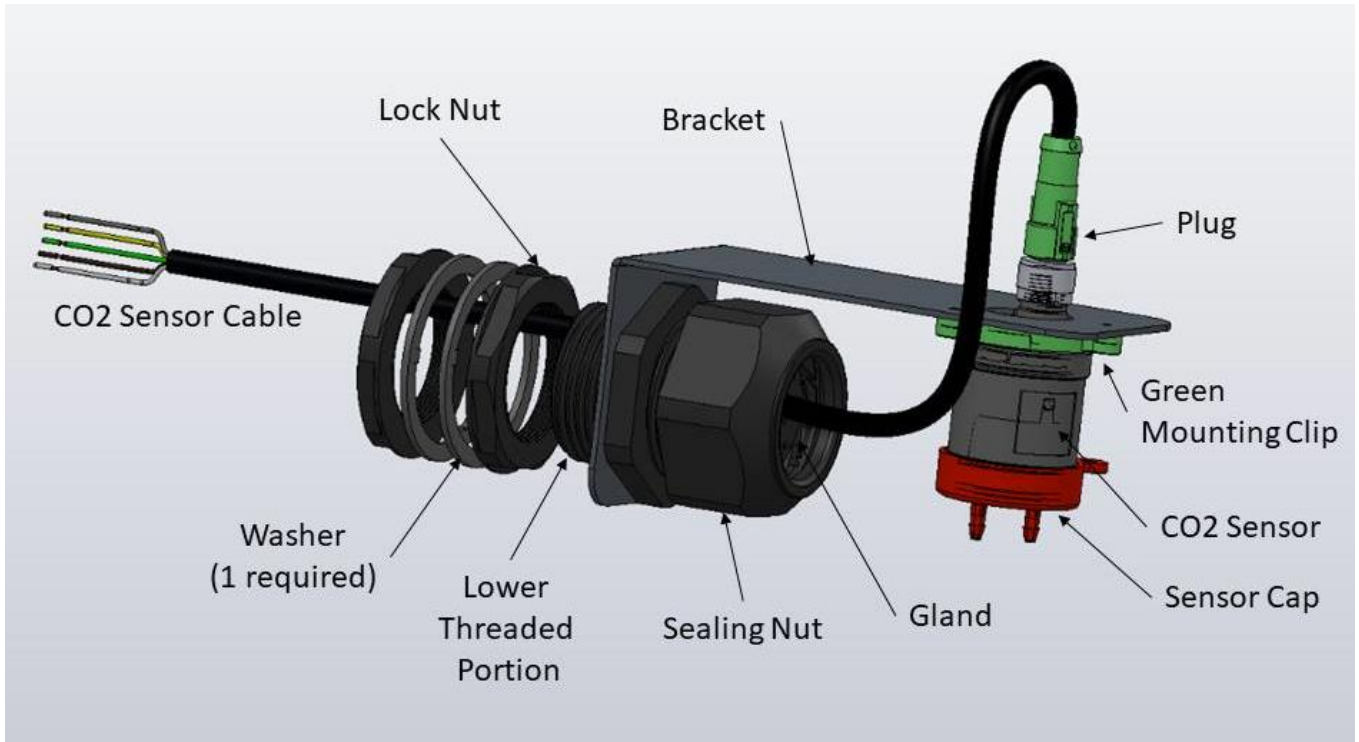

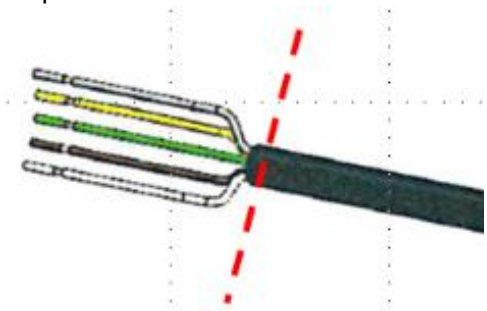





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	Revision No. 1	Approved By: S.Ditner	

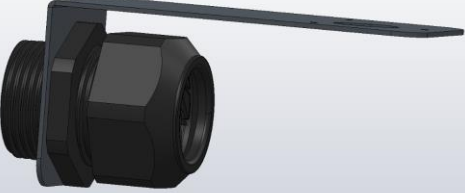
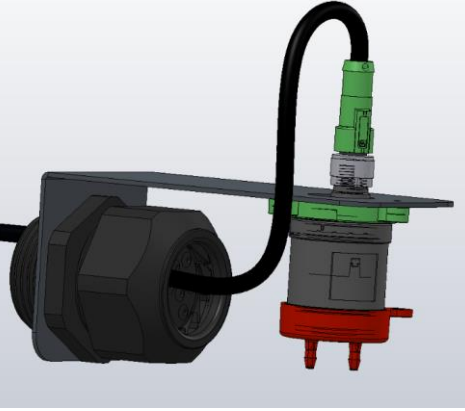
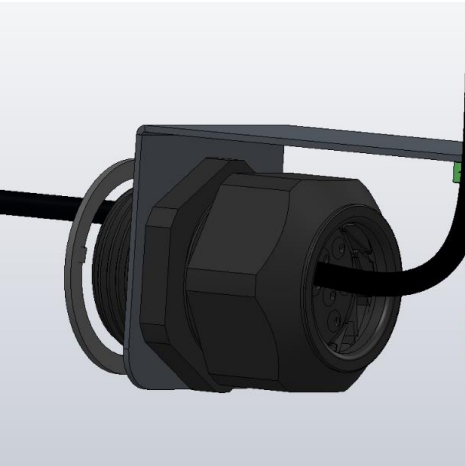




Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Step 1 	Remove the existing CO ₂ sensor by loosening the nut on the back, as well as the one inside the console, and slide it out of place.	Adjustable wrenches	Safety glasses Gloves as required
Step 2 	Cut the sensor wire square at the end to remove the pre-stripped wires.	Wire cutters	

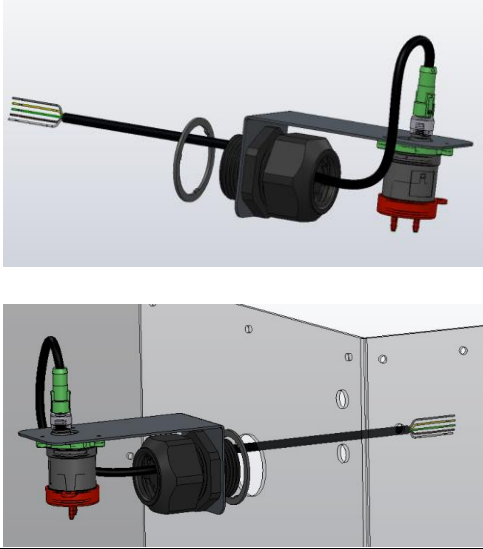
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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>Step 3</p> 	<p>Pierce the gland with a small screwdriver.</p> <p>Push wire through the gland to pierce the opening at one of the outer locations. When installed, this should be at the top of the liquid tight.</p> <p>Pull the wire through to leave approximately 6" exposed.</p> <p>Note: It is recommended to remove the sealing nut at this stage.</p>	<p>Screwdriver</p>	
<p>Step 4</p> 	<p>If the sealing nut was removed, replace it. Tighten gently.</p>		
<p>Step 5</p> 	<p>Remove the green mounting clip from the CO₂ sensor by rotating and attach to the bracket using 3 – P32026 machine screws.</p>	<p>Screwdriver</p>	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
Step 6 	Place the bracket over the lower threaded portion of the liquid tight.		
Step 7 	Reattach the CO ₂ sensor to the mounting clip. Insert the connector into the CO ₂ sensor. Gently pull any excess cable back through the gland.		
Step 8 	Tighten the sealing nut fully, by hand first and then with wrenches. The gland should be fully sealed around the cable.	Adjustable wrenches	
Step 9 	Use a file to gently chamfer the edge of the FRP opening where the previous sensor was in place.	File	
Step 10 	Apply silicone to the area around the opening of the FRP.	Caulking gun	

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Step (picture)	Step (Instructions)	Step (Tools Required)	Step (Safety & PPE)
<p>Step 11</p> 	<p>Place a washer on the lower portion of the liquid tight.</p> <p>Thread the lower portion of the liquid tight into the FRP panel at the rear of the P1 console.</p> <p>Tighten fully with a wrench.</p> <p>Note: The two lock nuts and one washer supplied in the kit may be discarded, as they are not used in this installation.</p>	Adjustable wrench	
<p>Step 12</p>	<p>Silicone around the edges of the liquid tight.</p>	Caulking gun	
<p>Step 13</p>	<p>Complete wiring inside the console. Use 2x PB5083 terminal strips. One will be S1, and the other S2.</p> <p>See attached wire run chart and diagram.</p>	<p>Electrical screwdrivers Wire cutters Wire strippers</p>	
<p>Step 14</p>	<p>Once new sensor is fully installed, the new sensor must be calibrated for both ZERO and SPAN.</p>		

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Wire Run Chart

Run From	Run To	Location	Wire to Use
CO ₂ Sensor Cable - Yellow	TB2-11	SMA106 or SMA111 board	On sensor
CO ₂ Sensor Cable - White	S1-1	Terminal Strip S1	On sensor
CO ₂ Sensor Cable - Brown	S1-2	Terminal Strip S1	On sensor
CO ₂ Sensor Cable - Green	S1-3	Terminal Strip S1	On sensor
CO ₂ Sensor Cable - Grey	S1-4	Terminal Strip S1	On sensor
PT2421 Power Supply – Black	S1-1	Terminal Strip S1	On power supply
PT2421 Power Supply – Red	S1-2	Terminal Strip S1	On power supply
PT2421 Power Supply – Blue	S2-1	Terminal Strip S2	On power supply
PT2421 Power Supply – Brown	S2-2	Terminal Strip S2	On power supply
TB2-12 on SMA106 or SMA111 board	S1-1	Terminal Strip S1	PB3361 black wire
CB3 top left terminal (circuit breaker 3)	S2-1	Terminal Strip S2	P3345 blue wire
CB3 top right terminal (circuit breaker 3)	S2-2	Terminal Strip S2	PB3312 brown wire

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Wiring Diagram:

