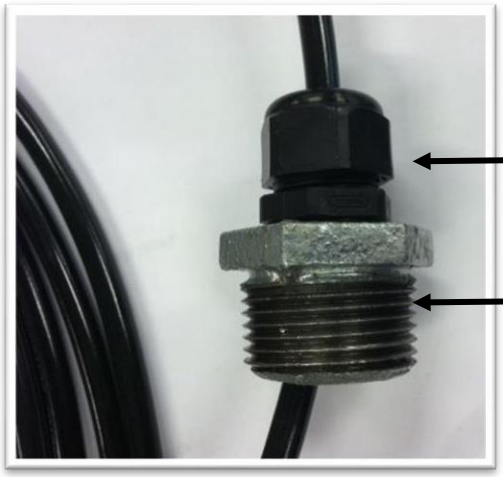
1. Install the fuel sensor:

a**.** On the open end of the cable, slide the pipe fitting on the cable.

b**.** Now, slide the cord grip, install it into the pipe fitting and tighten it around the cable. Be sure that the O-ring supplied with the cord grip is installed between the cord grip and the pipe fitting. Also, add Teflon tape on the pipe fitting for better sealing.

c. Now, insert the sensor end of the cable into the fuel tank via the bung hole and let it drop at the bottom of the tank.

Sensor Cable



Cord Grip (½" MNPT)

MNPT to ½" FNPT Pipe Adapter(s)

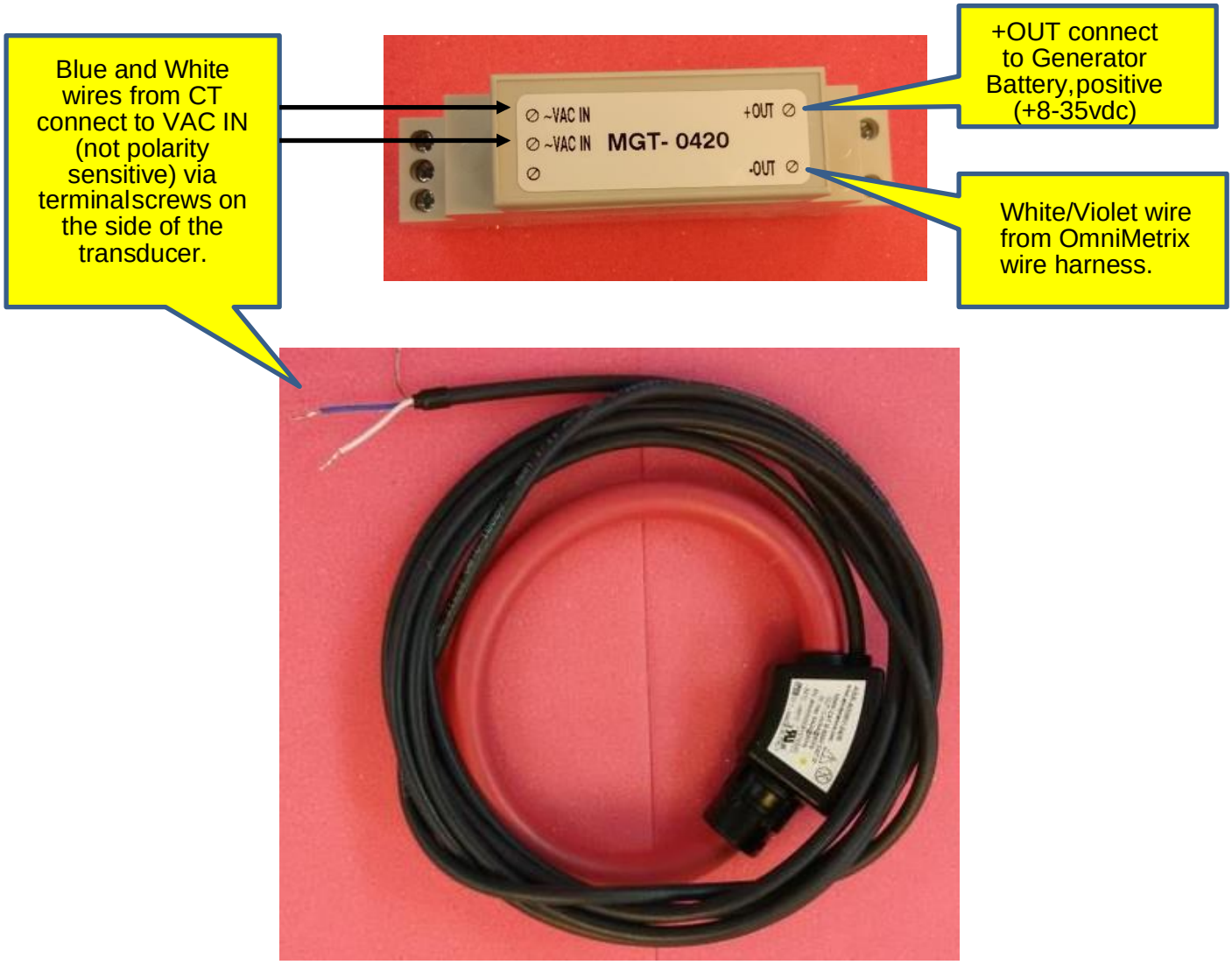
Cord Grip: Compact Liquid-Tight Cord Grip, Straight, for 0.2" – 0.35" Cord Diameter, ½ Trade Size, McMaster-Carr 69915K54 or equivalent.

Pipe Adapter(s):

MNPT	FNPT	McMaster-Carr P/N	
1	½	4638K548	For 1" tank bung
1 ¼	½	4638K724	For 1 ¼" tank bung
1 ½	1	4638K727	For 1 ½" tank bung (use with 1 x ½" adapter)
2	1	4638K728	For 2" tank bung (use with 1 x ½" adapter)

2. Magnelab MGT-0420-001 Current Transducer:

The current sensing kit includes a Magnelab brand current transducer (4-20mA output) and a current transformer (CT) that can be unfastened and refastened around a single conductor/cable. TheMagnelab transducer typically comes mounted to a DIN rail with magnetic feet for quick installation.



3. Wiring for MCT/Ram Submersible Fuel Level : (Using OMNI White / Blue Wire)

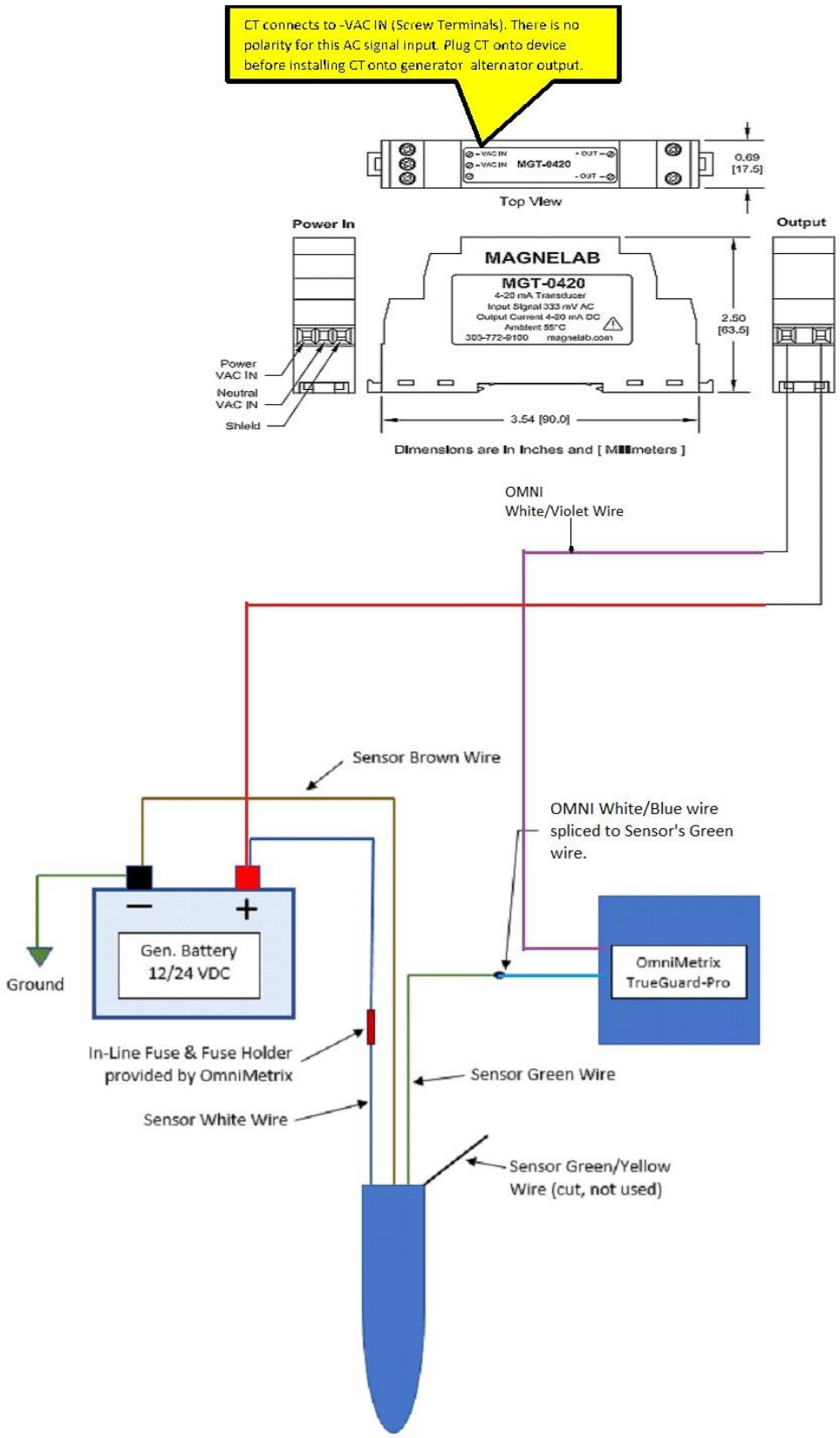
The BD 18.605G sensor is appropriate for use to a depth of about 10 feet, and its output is nominally 1 Vdc / foot depth. Connect the unit to the OmniMetrix® monitor using the table below. Power the device through the inlinefuse provided.

BD 18.605G Submersible Fuel Sensor Wiring Installation	
Fuel Sensor Wire	**Connect to**
White	+12-30VDC Supply (Battery **+**, Fused)
Brown	DC GND / Battery **-**
Green Wire	OMNI White/Blue monitor wire
Green/Yellow Shield Wire & Vent Tube	No Connection

4. Wiring for Magnelab MGT-0420-001 Current Transducer : (Using OMNI White / Violet Wire)

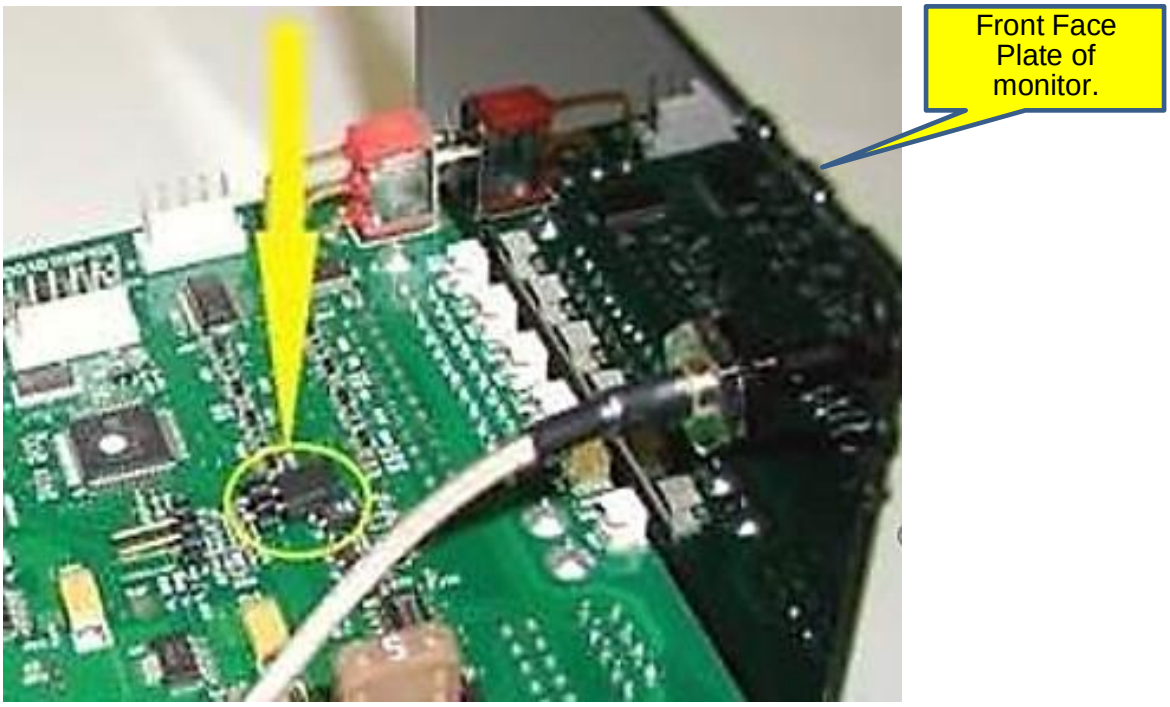
Magnelab MGT-0420-001 Transducer Wiring	
MCT	**Connect to**
+VAC IN	CT Blue
-VAC IN	CT White
MGT OUT-	OMNI White/Violet monitor wire
MGT OUT+	+12-30VDC Supply (Battery **+**, Fused)

5. Wiring Diagrams:



6. Checking the 0 – 5 V Analog Input Jumper:

Remove the four Philips head screws from the front of the OMNI unit and slide the front panel and circuit board outward half-way. The small, black jumper device should be installed onto the two pinsshown. If it is hanging on one pin, the controller circuit board is in the 0–5-volt analog mode. Shiftingit to connect the two forward pins, as shown, operates the optional 4-20ma mode.



NOTE: Please contact OmniMetrix Tech Support to assist in final testing of current sensing hardware: 770-209-0012, option 2.