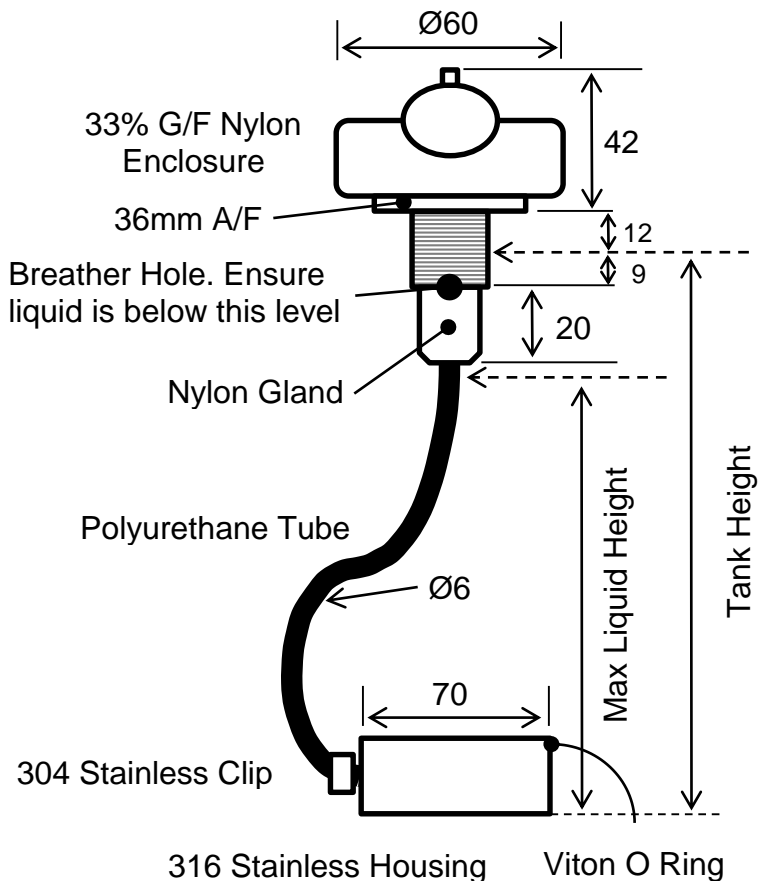


**T/LL200 INSTALLATION INSTRUCTIONS**  
**ISSUE 3 08/02/2012**



**1. System Description**

The T/LL200 consists of a tank mounted electronics enclosure connected to a submerged pressure sensor. The two items are connected by a tube. A tank reference pressure is provided by a breather hole located below the thread. Options are;

Variable voltage output  
0-5VDC range, or fixed  
current output 4-20mA

Low Level Alarm output with  
some configurations

$\frac{1}{2}$ " BSPT, 1" BSPT,  $\frac{1}{2}$ " NPT  
mounting thread or optional  
5 hole SAE flange mounting  
kit

**2. Environment**

Working Temperature Range : -20 to 85°C  
Storage Temperature Range : -55 to 105°C  
Working Depth Range : 0.4 to 3.5m Water, 0.4 to 4m Diesel at Ambient Pressure  
Pressure Sensor IP Rating: IP68 3.5m  
Electronics Enclosure IP Rating: IP66  
Fluid Medium : Water, Diesel

**3. Electrical Supply**

Voltage Supply : 9-32VDC for Voltage Output, 18-32VDC for Current Output  
Current Supply : Max 25mA at 24VDC

**4. Electrical Output**

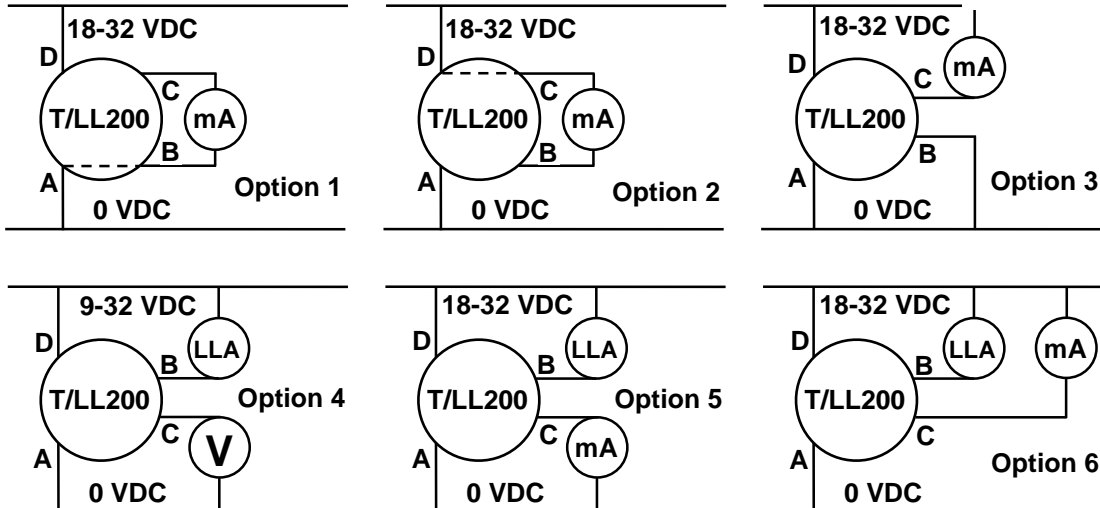
Current : Fixed 4 – 20mA. 250 $\Omega$  Maximum Load  
Voltage : Variable 0-5VDC. 500 $\Omega$  Minimum Load, 10mA Maximum Current  
Low Level Alarm : Switch to Ground. 100mA Maximum Current

**5. Performance**

Accuracy:  $\pm 2.5\%$  of Medium Depth assuming correctly specified Specific Gravity

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**6. Terminal Diagrams**



**7. Electrical Connections**

Terminal	Description	Diagram	Mating Connector
A	V- Power Supply (GND)		A four way moulded Delphi-Packard Metri-Pak 150 connection is available from Fozmula (C/K1). Suitable conductors have an inner stranded conductor of 0.35mm <sup>2</sup> to 1mm <sup>2</sup> cross section and outer insulation Ø2mm to Ø3mm
B	Output Signal / Low Level Alarm		
C	Output Signal		
D	V+ Power Supply		

**8. Installation**

1. Guide the pressure sensor through the tank opening. The tube is longer than the height of the tank so as to allow the sensor to lie flat at the bottom of the tank.
2. Screw the thread down until hand tight, then give an extra ¼ turn on the 36mm A/F moulded hex to seal.
3. Plug in to the Delphi-Packard connector

**9. Important Notes on Use**

1. Tank pressure variation is compensated through a breather hole from the tank ullage to the sensor. The breather hole is located where the tube/gland enter the threaded section of the electronics enclosure. The liquid medium must be kept below this level.
2. Do not remove the label on the electronics enclosure as this forms part of the enclosure sealing. Warranty will be invalidated if the label is removed.
3. The transducer diaphragm location, and protective mesh, guard against foreseeable damage. Ensure these areas are not depressed with solid objects.