LORD TECHNICAL NOTE

Using a DVRT[®] with a V-Link[®]-200

The DEMOD DC[®] is usually configured for 6 - 16 V dc and has a 0 - 5 V dc output. In this configuration, the output can be directly connected to the V-Link 200.

Because V-Link 200 has 4.096 V dc excitation for sensors, the DEMOD DC would have to be powered externally.

The DEMOD DC can be factory configured (option) to be powered by the V-Link 4.096 V dc and output a 0 - 4.096 V dc signal.

See the wiring and calibration procedures for both sensors below.

Wiring

Wiring for 6 - 16 V dc power supply with 0 - 5 V dc output.



Wiring for 4.096 V dc from V-Link 200 with 0 - 4.096 V dc output.





LORD TECHNICAL NOTE

Calibration

The calculation for the V-Link slope is the same for both versions of DEMOD DC

• From the DEMOD DC calibration sheet note the slope (mm/V)



- 22.1669 mm/V from the example above
- Multiple the DEMOD DC slope by (5.12 V ÷ 262144 bits)
 - \circ 5.12 V is the max input on the single ended channel when the 0 5 V range is selected
 - 262,144 is the number of bits the 18 A to D converter has
- 22.1669 x (5.12 V ÷ 262144) = 0.0004329 mm / bit

In SensorConnect, go to the Hardware tab and select the 0 - 5 Volts range for the channel the DEMOD DC is connected.

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Node 61	611							
Address								
Model	V-Link-200							
Serial	6312-2000-32136							
 Firmware								
				Wirel	ess Node Configur	ation		
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		Hardware Calibration						wer
			-					_
		pur varge	e	hannelitä	Input Ranne			
					a156-millVolts			
					anse-metworks			
					a156 millivats			
					4156-millVults			
					0.5 Walts			
					a10 Yofts			
					a5 Volts			
					osvas 🛌			
		ardware Offset						
			Channel(t)	Offue		Balance Target		
			1	626		Mil (50%) +	Auto Salance	



From the Calibration tab, enter the Slope calculated above in the Slope field for the channel the DEMOD DC is connected to.



With an Offset of 0 for the channel you will see the full range of the DVRT, for the example above the 100 mm DVRT would show 0 to 100 mm. If the application where the DVRT is being installed requires a -50 to +50 range, a -50 for an offset will provide this.

