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# **Model 4651-3 and 6015-4**

## **Dead End Pulley**

Instruction Manual





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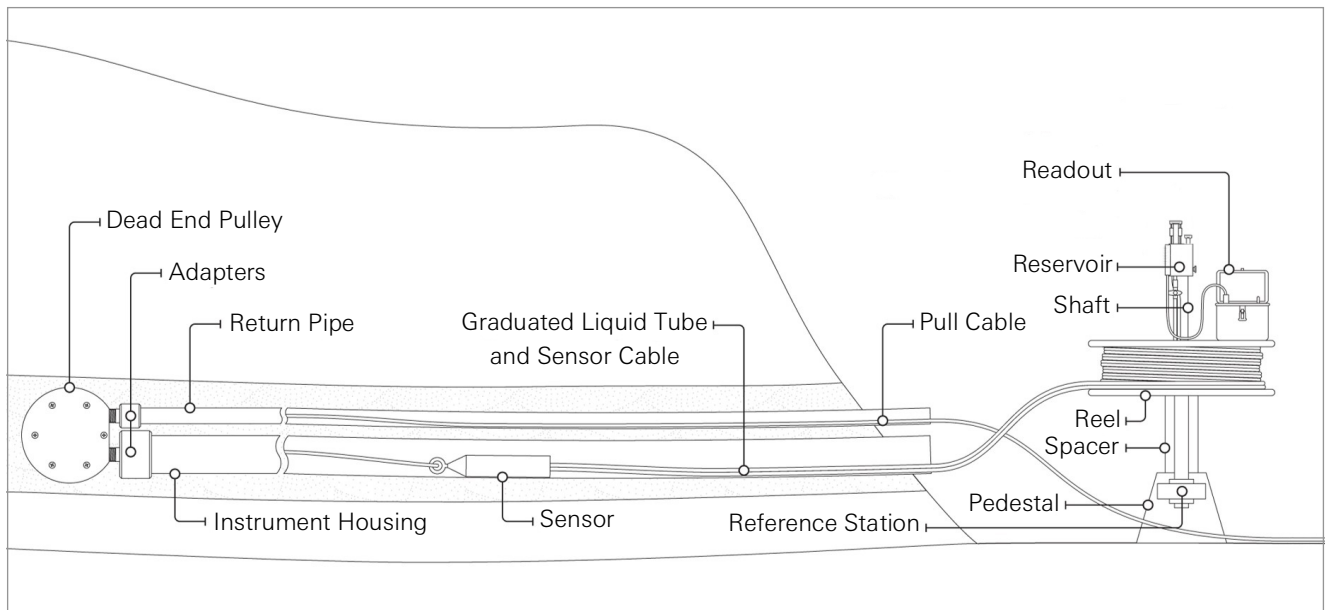
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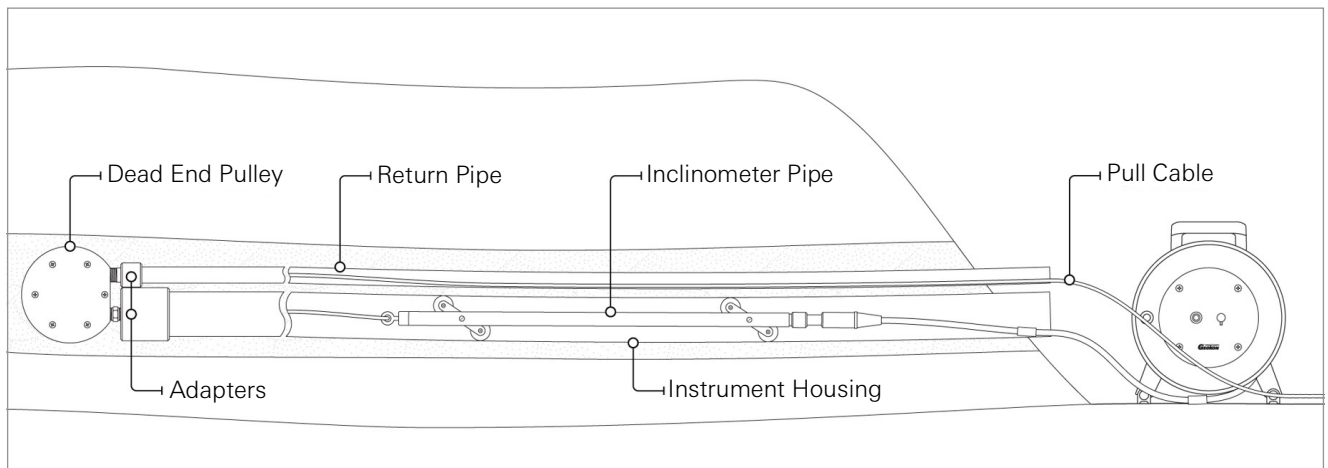
## 1. INTRODUCTION

When an inclinometer probe or settlement profiler is installed in a horizontal borehole, the casing of PVC that houses the instrument can be open at both ends, or closed at the far end. When the instrument housing is closed at the far end, a dead end pulley and cable return pipe are required. The GEOKON Model 4651-3 and 6015-4 Dead End Pulleys allow the operation of the pull cable from a single end of the housing, as shown in Figure 1 and Figure 2.

The pulley assembly may be positioned horizontally or vertically in the fill. It comes with two 1/2-14 NPT threads for mounting of adapters, which must be specified by the customer to ensure proper mating to the customer's instrument housing.

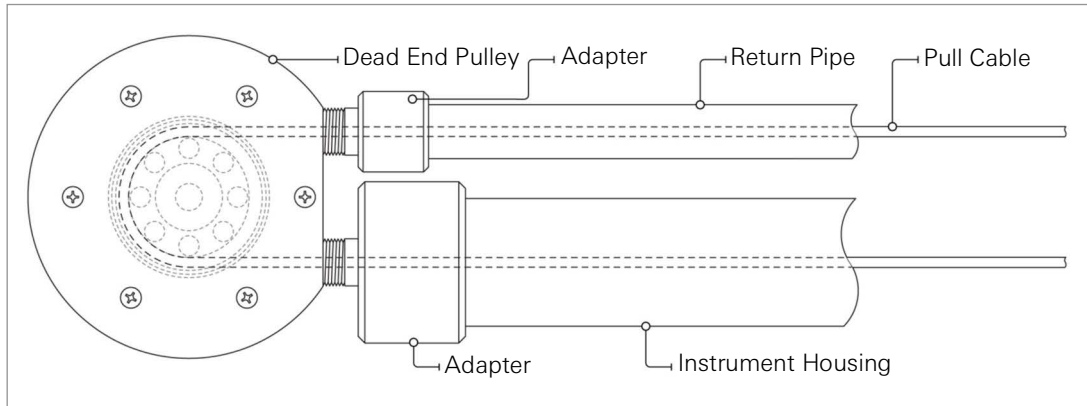


**FIGURE 1:** Settlement Profiler Using the Dead End Pulley System



**FIGURE 2:** Horizontal Probe Using the Dead End Pulley System

## 2. INSTALLATION



**FIGURE 3:** *Dead End Pulley Diagram*

Referring to Figure 3, install the dead end pulley. For most orders, the pull cable will be installed onto the pulley at the factory. If the pull cable is already installed, skip to Step 2, if not, continue to Step 1.

1. Push the pull cable into the pulley housing until it emerges on the opposite side.  
If the cable will not push through the assembly, it may be necessary to take the cap off by loosening the six 10-32 flat head screws. Once the cap has been removed, align the cable on the pulley. Next, reassemble the cap, making sure that the O-ring in the cap seals correctly.
2. Thread the pull cable through the return pipe.
3. Attach the return pipe to the adapter on the dead end pulley using PVC primer and cement.
4. Thread the pull cable through the instrument housing.
5. Attach the instrument housing to the adapter on the dead end pulley as follows:
  - **For PVC tubing and smooth walled casing:** Use PVC primer and cement.
  - **For grooved fiberglass casing:** Use rivets or self-tapping screws. Place Butyl Tape (GEOKON Model ADH-129) around the edge of the casing and over the installed rivets/screws (see Figure 4).



**FIGURE 4:** *Dead End Pulley Using Fiberglass Casing*

6. Continue assembling the return pipe and instrument housing, working away from the dead end pulley.

Installation is complete.









**GEOKON®**

GEOKON  
48 Spencer Street  
Lebanon, New Hampshire  
03766, USA

Phone: +1 (603) 448-1562  
Email: [info@geokon.com](mailto:info@geokon.com)  
Website: [www.geokon.com](http://www.geokon.com)

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