How Do I Determine Plumb Bob Cable Length?

It is important to have the Silo Level Monitor fit with the proper length of plumb bob cable. Cable length determines measurement span of the sensor. Too short a cable will not allow the plumb bob to reach the lower portion of the vessel and inventory in the lower portion of the vessel will not be measured. Too long a cable may result in the plumb bob getting caught in the discharge mechanism if the sensor were to be cycled on an empty vessel.

It is optimal to size a cable so that the plumb bob weight reaches its end of cable travel within one or two feet from the discharge opening.

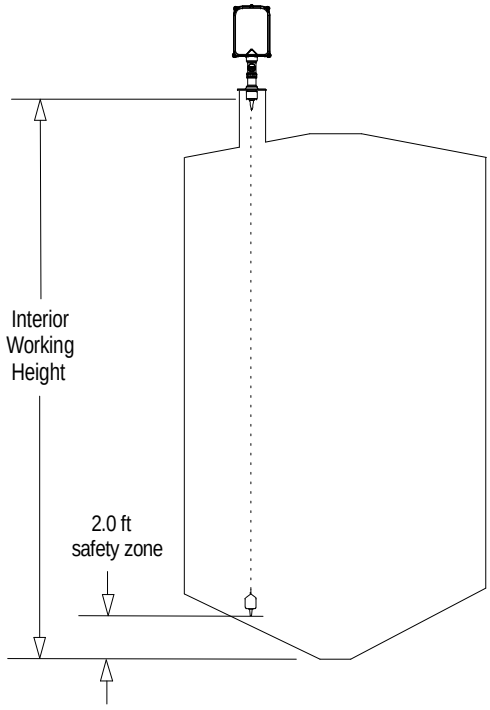
New Purchase:

When purchasing a new SMUse Silo Level Monitor please inform the factory of the Interior Working Height Dimension. The Interior Working Height is defined as the distance between the docketed position of the plumb bob weight and vessel discharge opening. The socketed position is the location of the plumb bob weight when the Sensor is not cycling.

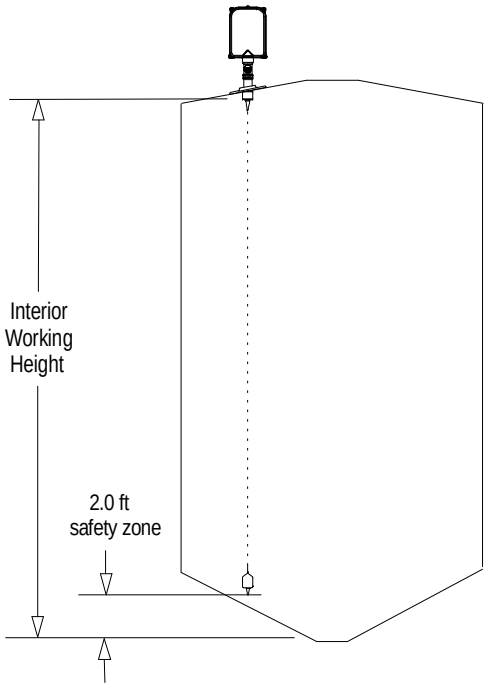
At the time of manufacturing the cable length will be sized such that if the Monitor were cycled on an empty vessel the plumb bob weight would stop two feet short of the discharge opening.

Replacement Cable Purchase:

When replacing a cable begin with the Interior Working Height dimension and subtract one foot. Order this length of plumb bob cable. (Actually, 3.0 feet is added to Interior Vessel Dimension to accommodate the cable consumed within the windings of the mechanism. Next, 2.0 ft is then subtracted to create the safety zone, all-in-all having the effect of adding 1.0 ft to the interior working height)



Pipe or Spout Mounting



Flush Mounting

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