

CTC AppNotes

A series of technical documents written by members of the CTC community

Reverse Mount Probe Housing

CTC has released the PRO DM91000 reverse mount proximity probe mounting assembly. This housing protects important proximity probe instruments in harsh manufacturing conditions.



Figure 1—PRO reverse mount proximity probe housing assembly allows eddy current probes to be mounted as deeply into a machine as 29.2 inches.

Easily adjust the gap between the machine shaft and probe or replace an extension cable without shutting down a machine.

The DM91000 assemblies have an aluminum body and seal with Viton O-rings. The 316L stainless steel adjustable probe mounting sleeve is specifically designed to hold up in extremely harsh industrial environments. The reverse mount proximity probe housing assembly assembles

quickly in the field from the five component parts. The most important part, the probe itself,

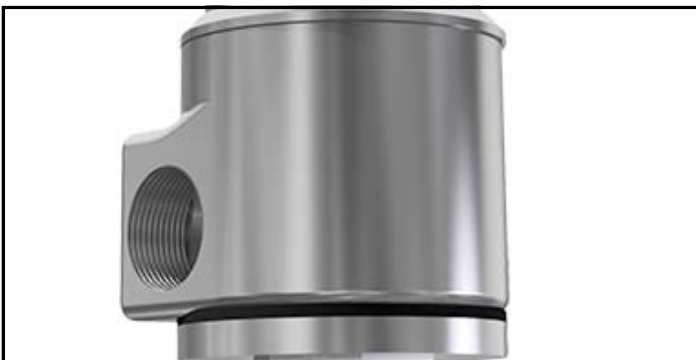


Figure 2—Housing base showing conduit access holes. 3/4 inch rigid body conduit is recommended. Note the large Viton O-ring seal.

threads into the bottom of the adjustable sleeve. (Note: the sleeve length is determined at time of ordering). Then the sleeve is attached to the base which



Figure 3—Upper housing machined from aluminum for durability and ease of use.

to the exterior of the machine in position for the final monitoring adjustments. The sleeve and probe are then adjusted to meet the proper gap requirements for proper eddy current monitoring of the shaft. After this the probe housing base is attached and positioned with the cable exiting through one of the side access holes in the base,



Figure 4—Cut-away rendering of the interior of upper housing showing adjustable sleeve for reverse mount probe. Excess cable can be coiled around the adjustable sleeve if needed.

generally conduit is attached to the housing base at this point. The upper housing allows room to connect the probe tip to the extension cable. Excess cable can be coiled around the adjustable sleeve inside the housing cover prior to attaching the upper portion of the housing to the base.

If you have any questions or for

further information please contact us via email, techsupport@ctconline.com or call 1-800-999-5290 in the US and Canada or +1-585-924-5900 internationally.