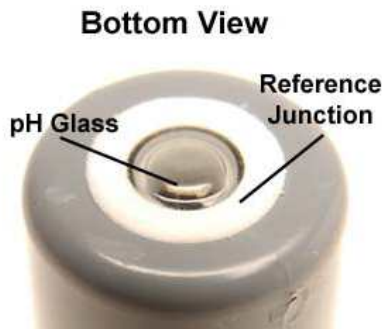


# MODEL 51 (pH) & 52 (ORP) DESCRIPTION

The Model 51 and 52 electrodes use a flat glass surface operating principle. All Insite IG electrodes are combination ph/reference or ORP/reference electrodes with double reference junctions for added protection against contamination. Both the 51 & 52 are cartridge type electrodes making replacement simple and easy.

The cartridge is sealed into the holder with a reliable double O-ring seal. All replacement electrodes ship complete with O-rings. The threaded TNC connector at the top of the electrode body ensures a reliable electrical connection to the holder.

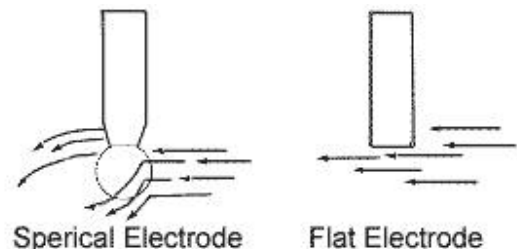


In the center of the measuring surface is the pH sensitive flat glass surface. This surface is surrounded by the flat porous reference junction. The large area of this porous junction has thousands of pores allowing for excellent sample contact. The electrode is enclosed by the electrode body. Built into the electrode body is a sealed,

gel filled double junction reference half cell. This design adds an extra barrier against contaminants. This also allows the electrode to be used in applications where sulfides, heavy metal ions, and similar materials are present.



The flat surface measuring approach has several advantages over the typical spherical electrode. The flat sensing surface is rugged, abrasion resistant, and to some degree self-cleaning. In both coating and abrasive applications these cartridge type electrodes can improve measurement accuracy, prolong electrode life, reduce maintenance, and virtually eliminate breakage.



The Insite electrode body is CPVC which is suitable for a wide range of water based applications. Materials that come in contact with the process include CPVC, polyethylene, glass, O-rings made of Viton, and, for ORP electrodes, platinum.

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