

Specifications

Model: IR225B



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The flow sensor shall be an insertion type with a non-magnetic, spinning impeller (paddle wheel) as the only moving part. The sensor sleeve will be brass with the sensor housing being glass-filled PPS. The impeller shall be glass-filled nylon or Tefzel® with a UHMWPE or Tefzel® sleeve bearing. The shaft material shall be tungsten carbide. The flow sensor shall be supplied with a 2" full bore gate valve in brass and a nipple threaded for a 2" NPT connection. A bleed valve and three ethylene-polypropylene O-Rings shall be supplied with the 2" NPT adapter portion of the sensor. A removable installation tool shall be attachable to the sensor for insertion or removal of the flow sensor from the pipe. The sensor electronics will be potted in an epoxy compound designed for prolonged immersion. Electrical connections shall be 2 single conductor 18 AWG leads 48 inches long. Insulation shall be direct burial "UF" type colored red for positive lead and black for the negative lead. Insertion of the sensor into any pipe size shall be a fixed 1 ½" depth from the inside wall to the end of the sensor housing. The sensor shall operate in line pressures up to 200 psi and liquid temperatures up to 220° F, and operate in flows of 1 foot per second to 30 feet per second in pipes of 3" diameter up to 40" diameter with linearity of $\pm 1\%$ and repeatability of $\pm 1\%$. This sensor shall be Data Industrial Model IR-225. The installation tool shall be detachable Model HTT.

