



Models IR-220B/IR220SS/ IR-225B/IR-226B/IR-226SS/ IR250B/IR220P/IR228B-2

The Data Industrial IR Series flow sensors are “environmentally hardened” versions of the standard DI flow sensors. These IR versions are specifically designed for installation in underground vaults that might be subjected to flooding. The IR Series feature a six-bladed impeller design with a proprietary, non-magnetic sensing mechanism. The impeller shape coupled with the absence of magnetic drag provides accuracy and repeatability throughout the flow range of the sensors. As the liquid flow turns the impeller, a low impedance 8 VDC square wave signal is transmitted with a frequency proportional to the flow rate. This signal can travel up to 2,000 feet between the sensor and the display unit without the need for amplification. The sensors are configured with two 48 inch single conductor leads.



Applications

- **Irrigation Systems** — mounted underground in valve boxes.
- **Municipal Water Systems** — mounted in meter pits or vaults.
- **Groundwater Monitoring** — mounted on outdoor piping.
- Any outdoor or underground location with standing water, snow or ice problems.

IR Series Flow Sensors

IR Series flow sensor models are available in a variety of sizes and materials.

Available Models:

IR-250B — Removable sensor mounted in cast bronze tee with Female NPT threads. Available Pipe Sizes: 1", 1 1/4", 1 1/2" for metallic pipelines and low flow applications.

IR-220B — Insert style brass sensor; IR-220SS — Insert style stainless steel sensor; mounts in 2" NPT Saddle or Thredolet® for all pipe materials and sizes 3" and larger.

IR-225B — Brass insert style hot tap sensor with brass gate valve: 2" NPT.

IR-226B — Brass insert style hot tap sensor with ball valve: 2" NPT.

IR-226SS — Stainless steel insert style hot tap sensor with ball valve: 2" NPT.

IR-228B-2 — Tee mounted sensors consisting of a standard 220 insert sensor mounted in a 2" NPT Brass Tee.

IR-220P — Removable sensor mounted in schedule 80, PVC Tee with socket ends. Available pipe sizes: 1 1/2", 2", 3" and 4". For use with PVC piping systems.

Specifications

IR SERIES FLOW SENSOR	IR-220P	IR-250B	IR-220B	IR-220SS	IR-225B	IR-226B	IR-226SS	IR-228B-2
MAX TEMPERATURE	140°F	150°	150°	150°	150°	150°	150°	150°
MAX PRESSURE	100psi @ 68F	400psi	400psi	400psi	200psi	400psi	400psi	200psi
FLOW RANGE	.5-30 Ft/sec	.5-15 Ft/sec	.5-30 Ft/sec	.5-30 Ft/sec	.5-30 Ft/sec	.5-30 Ft/sec	.5-30 Ft/sec	.5-30 Ft/sec
ACCURACY	± 1% OF FULL SCALE							
REPEATABILITY	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%
LINEARITY	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%	± 0.7%
END CONNECTION	Socket Tee	Female NPT Tee	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" Female NPT Tee

Materials

IMPELLER	GLASS REINFORCED NYLON							
SHAFT	TUNGSTEN CARBIDE							
BEARING	Pennlon® (UHMWPE) ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE							
HOUSING	GLASS REINFORCED POLYPHENYLENE SULFIDE (PPS)							
SLEEVE	Socket Tee	Female NPT Tee	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" NPT Insert	2" Female NPT Tee
BEARING	ETHYLENE PROPYLENE (EPDM)							
TEE	Sch 80 PVC	Cast Bronze	NA					Bronze Tee

Consult Factory for other Impeller, Shaft, Bearing, O-Ring Options

Dimensions

