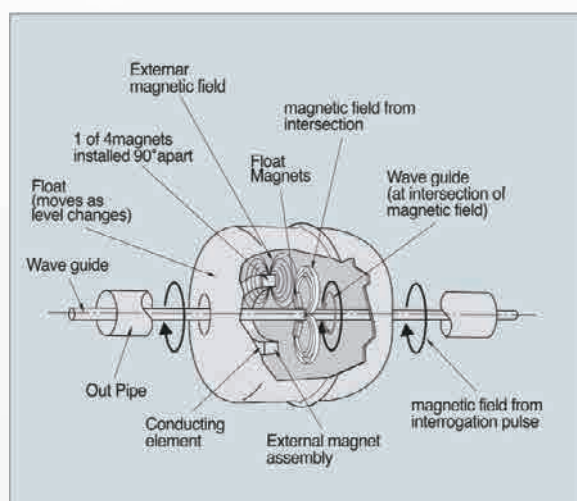


Magenetostrictive Level Transmitter DPS - Series

APPLICATION

An electric pulse is induced in a waveguide by the momentary interaction of two magnetic fields. One field is generated by a movable permanent magnet housed in a float, which passes along the outside of the sensor tube. And the other field comes from a current pulse. The interaction between the two magnetic fields produces a twisted pulse, which travels at sonic speed along the waveguide until the pulse is detected at the head of the sensor. The position of the magnet is determined with high precision by measuring the elapsed time between the launching of the electronic interrogation pulse and the arrival of the twisted pulse. The time difference between original pulse and feedback pulse is used to calculate extremely accurate non-contact level sensing.

WATEGUIDE STRUCTURE



If a current pulse is applied to a special magnetization wire, a magnetic field is generated around the magnetization wire. The distance is measured using the time difference between the pulses generated as the axial magnetic field is applied by the route after it moves according to the water level and returned to the electric circuit through the magnetization wire.

FEATURES

- Explosion-proof Level sensor.
- Current(4~20mA) Output.
- Communication(RS-485) Output. (Using its own protocol)
- Built-in temperature sensor
- Height correction function

SPECIFICATIONS

Supply Voltage	DC 24V
Current Consumption	Max. 200mA
Measuring Range	Max. 10M
Signal Output	DC 4~20mA RS-485 (Using its own protocol)
Accuracy	Full Scale ±0.25%
Operating Temp.	-20℃ ~ 85℃ (Head) -20℃ ~ 60℃ (Probe)
Operating Pressure	Max. 20Kgf/℃
Enclosure Rating	IP65
Electrical Connection	1/2 Inch PF
Material	HEAD : Aluminum Stem : Stainless Steel Flange(Socket) : Stainless Steel Float : Stainless Steel

DPS - 500(L)

- The specification of the wiring lead-in is PF 1/2".
- 3 wire connection type (GND Common) Current (4~20mA) Output.
- 4 wire connection type (RS-485) Output.

Ordering Variation

DPS - 500	Explosion-proof
DPS - 500L	Built-in Indicator



DPS - 500



DPS - 500L



DPS - 500L
INDICATOR

DPS - 200

- The specification of the wiring lead-in is PF 1/2"
- 2 wire connection type (Current Loop) Current (4 20mA) Output

Ordering Variation

DPS - 200	Max. Range 1M
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DPS - 200