



Digiflow[®] FLS

Paddle Wheel Flow Meters & Instrumentation

Type 100 Flow Sensor

The **Type 100** Flow Sensor is the core item in the FLS Paddle Wheel line of sensors. Most of it's specifications are common to the **Digiflow FLS** product line.



Battery Powered Flow Meters

The **Type 215** Point-of-Use Flow Indicator/Totalizer uses a standard 3.6V Lithium battery. A coil effect pulse output flow sensor is employed. In a NEMA 4X is an LCD digital display which shows flow rate (4-digits) or total flow (6-digits) in any volumetric unit. Calibration is easily performed in the field using the keypad. [Installation fittings are required](#). Another battery powered flow meter is the Type 100BP / 400BP which includes a surface mount indicator/totalizer and a separate flow sensor. The indicator may be installed up to 10 meters away in a convenient reading location.

- PVC, PP, PVDF or 316SS Bodies
- 1/2" to 30" Pipe Sizes



Flow Transmitters

The **Type 2110** is a 2-wire flow transmitter with 4-20mA output. A hall effect pulse output sensor is employed. In a NEMA 4X is an LCD digital display which shows flow rate (4-digits) or total flow (6-digits) in any volumetric unit. Calibration is easily performed in the field using the keypad. [Installation fittings are required](#). 3-Wire units are available.

- Supply Voltage: 12 to 24Vdc
- PVC, PP, PVDF or 316SS Bodies
- 1/2" to 30" Pipe Sizes

No-Flow Switches

The **Type 105** No-Flow Switch opens an electrical circuit when flow velocity decreases to the preset trip point. Typical applications are to protect a pump from running dry or pumping against a closed valve in the main pipe. A red/green bicolor LED indicates status locally: **Red = No Flow, Green = Flow**

- Supply Voltage: 12 to 24Vdc
- PVC, PP, PVDF or 316SS Bodies
- 1/2" to 30" Pipe Sizes
- Velocity Trip Point: Below 0.5 ft./sec. (0.15 m/sec)

Ultra Low Flow - Flowmeters (3 Types Available)

Type ULF Flow Sensor - Produces a Hall Effect pulse output that is proportional to the flowrate. Output is normally fed to a panel mount instrument. Supply voltage is between 12 & 24Vdc.



Type ULF-FT Battery Powered Flow Indicator/Totalizer - Reed Switch pulse output sensor is combined with flowrate/total flow LCD display (same as Type 215 above).

Type ULF-XFT 2-Wire Flow Transmitter - Reed switch output sensor is combined with local flow rate/total LCD display. Output signal is 4-20mA proportional to the flowrate.

- ECTFE Halar® sensor body offers high chemical resistance
- 5-Blade Halar® rotor with embedded magnets
- Sapphire shaft and bearings for long life
- **End Connections:** 1/4" MNPT
- **Flow Ranges:** 1.056 to 52.88 GPH (4 to 200 LPH) or 1.58 to 211.33 GPH (6 to 800 LPH)

Electromagnetic Flow Transmitters



The **Type 3110** is an insertion type transmitter. Output is a 4-20mA analog signal proportional to the flowrate. Compared to the paddle wheel type, these units are better suited to handle slurries and high viscosity fluids. They are not affected by ferrous particles which will foul the magnetic rotors of the paddlewheel type meters. In addition, they are less costly than full port magmeters and easier to maintain.

- For plastic pipe 2" to 12"
- For metal pipe 2" to 16"

Installation Fittings



Bolt On Saddle

- PVC
- PP
- PVDF



Installation Tee

- PVC
- PP
- PVDF
- EPDM / Viton Seals



Weld On Adaptor

- Carbon Steel
- 316SS
- Other Materials by request
- 2 Sizes cover pipe sizes from: 1.5" to 30"



Plug

Plugs are used to cap off tees or saddles after a sensor is removed for relocation, repair, cleaning or pipeline maintenance. Standard O-rings are EPDM / Viton.