



Hydraulic Flow Metering



Section 1 – Hydraulics

Dataflow 4-20mA & Pulse Output Flow Transmitters



Temperature Range:
+5°C to +80°C Oil
+5°C to +60°C Water

Maximum Working Pressure:
10 bar Oil/Water

- 4-20mA output. CE
- Pulse output available for totalising/batching.
- Works in any plane.
- Accepts reverse flow.
- Maximum flow 150 l/min.
- Negligible pressure drop.
- Pressures up to 10 bar.
- Low cost. Simple to install.
- For use with most liquids.
- Factory calibrated. Accuracy ±2%.
- DIN connection.

Construction:
Borosilicate glass tube, Nitrile seals.

Body: Glass filled nylon.
Rotor and Locator: Acetal.

Washers and shaft: Stainless Steel.
Rotor Tips: Stainless Steel.

Minimum Flow:
2 l/min (Max 150 l/min). Accepts reverse flow.

Accuracy: ±2%.

Connection: 1" BSPP.

Weight: 0.7kg.

Calibration 4-20mA:
4-20mA = 0-100 l/min on water.
4mA = 0 l/min, 20mA = 100 l/min.

Pulse Output: K factors CE.
Oil: 51.14 pulses per litre.
Water: 44.25 pulses per litre.

Electrical Details:
4-20mA:
Supply = 24V DC. Output = 4-20mA.

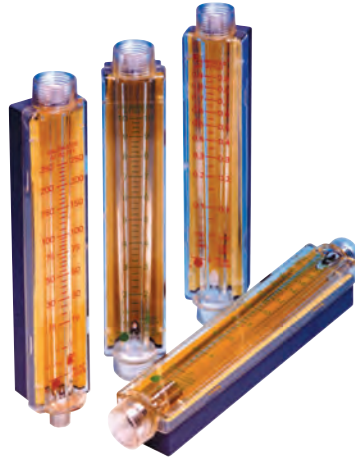
Pulse Output:
Supply = 24V DC-pulse output.
(open collector transistor.)

Dataflow Transmitters



DFT980 Dataflow Pulse Output Transmitter **865.85**

Loflow Oil, Water & Air Flowmeters



- Flow measurement from 7.0 ml/min to 22 l/min.
- Easy to read, permanent printed scales.
- Large scale definition for precise measurement.
- Easy panel mounting assembly.
- Negligible pressure drop characteristics.
- 10 bar Pressure rating.

Construction:

Body: Grillon TR55.
Back Body: ABS7020.
Ball Retainer: ABS7020.
Back Panel: PVC.

Accuracy: ±2% FSD.

Repeatability: ±1%.

Connections:

Inlet 1/4" or 3/4" Tapered Threads.
Outlet 3/4" Tapered Threads.

Typical Applications:

- Monitoring inert gases for the welding industry.
- Pollution Monitoring.
- Pharmaceutical industry.
- Filtration systems.
- Hospital equipment for water applications.
- Water treatment.
- Swimming pools.

Tech Sheet
10322

Water BSPT, Inlet

0045	Media	Flow	Material	£
LF2020	Water	3/4" 0.2-2.0	ACETAL	123.10
LF2100	Water	3/4" 1.5-10.0	S/S	133.90
LF2220	Water	3/4" 2.0-22.0	S/S	133.90

Air BSPT, Inlet

0045	Media	Flow	Material	£
LF3007E	Air	1/4" 1-7.0	ACETAL	141.20
LF3050E	Air	3/4" 10-50.0	ACETAL	133.90
LF3135E	Air	3/4" 20-135.0	ACETAL	133.95
LF3330E	Air	3/4" 1.5-5.5/l/sec	S/S	121.90
LF3720E	Air	3/4" 1-12.0 l/sec	S/S	115.45

Flowline Oil & Water Calibrated Flowmeters, Stainless Steel



Temperature Range:
-20°C to +105°C

Maximum Working Pressure:
Up to 350 bar

- For flow measurement of corrosive or chemical media
- Manufactured in Stainless Steel 316
- Works in any position
- Pressure up to 350 bar (5000psi)
- Flows up to 360 l/min
- Accuracy ±5% FSD.
- Repeatability ±1% FSD
- Direct Reading

Construction:
Stainless Steel to BS970 316S

Calibration:
Oil = Specific gravity 0.856 at 20°C
Water = Specific gravity 1.0 at 20°C

Viscosity Range: 10-200 centistokes

Accuracy: ±5% FSD

Repeatability: ±1% FSD

Minimum Scale: ±1% FSD 10% FSD.

Connections: BSPP

Seal: Viton

Wetted Parts:
Body, Thread, Adaptor, piston etc:
Cone Locknut Stainless Steel BS 970316S 16

Magnet Encapsulation:
Stainless Steel BS970/1:1991:316S31

Spring: Stainless Steel to BS2056 EN58J

Stainless Steel, BSPP, Red - Oil

0045	Flow	Material	£
FM26332112	3/4" 5-55	350	1214.35
FM26332212	3/4" 10-110	350	1348.75