



Electronic Ultrasonic Flowmeters

- Accuracy: ±1% of reading
- Flow material: water-like liquids

Flowmeters feature an easy, non-invasive installation and low maintenance. Units are suitable for measuring clean liquids in energy monitoring, HVAC, power generation, and water treatment applications.





Mfr.

| 96 | 49D |
|----|-----|
| | |

| For Pipe Size | Flow Range | Units | Model | No. |
|-----------------|--------------------------|---|------------------|--------|
| | | Range: -40° to 250°F, Power Req.: 10-30V DC | | |
| Strap-on Assem | | | | |
| ½ in to 98 in | 0.09792 to 940,420 gpm | | DXNP-ABS-NN | 49DE96 |
| ½ in to 98 in | 0.09792 to 940,420 gpm | Acre Feet, Cubic Feet, Cubic Meters, Feet, Kilograms, Liquid Barrels, Liters, | DXNP-AES-NN | 49DE99 |
| ½ in to 120 in | 0.00612 to 1,410,000 gpm | Mega US Gallons, Meters, Oil Barrels, Pounds, Gal | DXNP-ATS-NN | 49DE97 |
| 1 in to 60 in | 0.00612 to 1,410,000 gpm | wega oo dalidhis, weters, dii barreis, r dunus, gar | DXNP-AFS-NN | 49DF01 |
| 1 in to 60 in | 0.09792 to 940,420 gpm | | DXNP-AHS-NN | 49DE98 |
| | | p. Range: -40° to 140°F, Power Req.: 95-264V AC | | |
| Dual Connection | 1 | | | |
| ½ in | 2 to 38 gpm | Acre-Feet, Barrels (Liquid and Oil), British Thermal Unit, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Kilojoules, Kilowatts, Liters, Megawatts, Meters, Million British Thermal Unit, Million Gallons, Million Liters, mmBtu, Pounds, Tons | DTFXE-AP-AKNB-NN | 49DE81 |
| ½ in | 2 to 38 gpm | Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds | DTFXB-GP-AKNN-NN | 49DE75 |
| 3/4 in | 2.75 to 66 gpm | Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, | DTFXE-BP-AKNB-NN | 49DE82 |
| 3/4 in | 2.75 to 66 gpm | kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons | DTFXE-HP-AKNB-NN | 49DE88 |
| 3⁄4 in | 2.75 to 66 gpm | Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds | DTFXB-BP-AKNN-NN | 49DE70 |
| 1 in | 3.5 to 108 gpm | Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, | DTFXE-CP-AKNB-NN | 49DE83 |
| 1 in | 3.5 to 108 gpm | kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons | DTFXE-IP-AKNB-NN | 49DE89 |
| 1 in | 3.5 to 108 gpm | Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, | DTFXB-CP-AKNN-NN | 49DE71 |
| 1 in | 3.5 to 108 gpm | Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds | DTFXB-IP-AKNN-NN | 49DE77 |
| 2 in | 8 to 420 gpm | Acre-Feet, Barrels (Liquid and Oil), Btu, Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, kJ, kW, Liters, mBtu, Meters, Million Gallons, Million Liters, mmBtu, MW, Pounds, Tons | DTFXE-FP-AKNB-NN | 49DE86 |
| 2 in | 8 to 420 gpm | Acre-Feet, Barrels (Liquid and Oil), Cubic Feet, Cubic Meters, Feet, Gallons, Kilograms, Liters, Meters, Million Gallons, Million Liters, Pounds | DTFXB-FP-AKNN-NN | 49DE74 |

Display



Doppler Ultrasonic Flowmeters

- Accuracy: ±2% full scale
- Flow velocity range: 0.15 to 30 ft./sec.

Non-invasive meters measure full-pipe flows of liquids containing suspended particles or aerated liquids such as sewage, mud slurries, and plastics.

DFX Flowmeter Systems—Systems include transmitter and transducer.

■ Ambient temp. range: -40° to 185°F

DFX Flowmeter Transmitters—Each transmitter allows up to 4 meters to be interconnected.

■ Ambient temp. range: -40° to 185°F





Flowmeter Transducers—Suitable for most plastic and metal pipes.

■ Ambient temp. range: -40° to 194°F

| Includes | | Mfr. Model | Item No. |
|--|--|---|------------------|
| | | mouor | 110. |
| in and Above - ! | 5XPN2 | _ | 7HU43 |
| 1/4 in to 1 in - 5 | XPN3 | _ | 7HU44 |
| in and Above - 5 | 5XPN2 | _ | 7HU45 |
| 1/4 in to 1 in - 5 | | _ | 7HU46 |
| mitters | | | |
| | | DDFXD2-ANNA-NN DDFXD2-ENNA-NN | 5XPN0 5XPN1 |
| otion | For Use With | Mfr. Model | Item No. |
| | | | |
| above to 1.00 | - 5XPN0, 5XPN1 | DT94-020-N000-N DT95-020-N000-N | 5XPN2 5XPN3 |
| lule | | D020-1045-100 | 5XPN4 |
| Rate Pulse Output Module, 0-2,500Hz Control Relay Module-Two Form C | | D020-1045-207 D020-1045-102 | 5XPN5 5XPN6 |
| | ms (transmitter an Transducer For Pi in and Above - 1 Transducer For Pi in in 1 in - 5 Transducer For Pi in and Above - 1 Transducer For Pi in and Dave - 1 Transducer For Pi in and Above - 1 Transd | Dation For Use With Press above 5XPN0, 5XPN1 Use dodule, 0-2,500Hz 5XPN0, 5XPN1 | Includes Model |



Transmitters and **Flowmeters**

For use in water/wastewater treatment, irrigation, industrial, and HVAC/building automation applications.

Flow Transmitters—Can receive sensor data and convert it to the desired output that represents the flow rate.

BTU/Flowmeters—Measure flow and temperature differential to compute energy in hot service applications. Output is scaled pulse and RS-485 (Modbus and BACnet).

- Fluid temp. range: 20° to 260°F
- Accuracy: ±2%





Brass Flowmeters—Each sensor comes with 20-ft., 2-conductor 20 AWG shielded UL type PTLC 221°F (105°C) cable.

- Fluid temp. range: 0° to 221°F
- Accuracy: ±1

Stainless Steel Insertion Flowmeters—Suitable for use in flow control and batch type applications.

- Fluid temp. range: 14° to 150°F
- Accuracy: ±1%

| Description | Model | No. |
|---------------------------------------|-------------|--------|
| Flow Transmitters | | |
| Analog Signal, 9-35VDC | 310-00 | 49DF35 |
| BACnet and Modbus Signal, 12-24VAC | 340BN/MB-00 | 49DF34 |
| Lon Works Signal, 12-24VAC/DC | 340LW-00 | 49DF38 |
| N2 Output Signal, 12-24VAC | 340N2-00 | 49DF33 |
| Pulse Signal, 12-28VAC | 320-00 | 49DF36 |
| Relay Signal, 12-28VAC | 330-00 | 49DF37 |

| For Pipe Size | Flow Range | Wetted Materials† | Mfr. Model | Item No. | |
|--|--|--|--|--------------------------------------|--|
| BTU/Flowmet | ers, FNPT, All-In-One | | | | |
| 3/4 in | 1.65 to 24.69 gpm | | 380207000-1202 | 49DF12 | |
| 1 in 1 ¼ in 1 ½ in 2 in | 2.70 to 40.48 gpm 4.66 to 69.93 gpm 6.35 to 95.18 gpm 10.49 to 157.34 gpm | Brass, PEEK | 380210000-1202 380212000-1202 380215000-1202 380220000-1202 | 49DF13 49DF14 49DF15 49DF16 | |
| Brass Insertic | n Flowmeter | | | | |
| 3 in | _ | Brass, EPDM, Nylon, Tungsten, UHMWPE | 220BR0005-1211 | 49DF24 | |
| Brass T Flown | | | | | |
| 1/2 in | 0.18 to 9.18 gpm | | 250BR0505-1211 | 49DF19 | |
| 3/4 in | 0.41 to 20.6 gpm | | 250BR0705-1211 | 49DF20 | |
| 1 in | 0.73 to 36.7 gpm | Brass, EPDM, | 250BR1005-1211 | 49DF21 | |
| 1 ¼ in | 1.14 to 57.3 gpm | Nylon, Tungsten, | 250BR1205-1211 | 49DF22 | |
| 1 ½ in | 1.65 to 82.6 gpm | UHMWPE | 250BR1505-1211 | 49DF23 | |
| 2 in | 5.00 to 300 gpm | | 228BR2005-1211 | 49DF17 | |
| 2 ½ in | 7.65 to 459 gpm | | 228BR2505-1211 | 49DF18 | |
| Stainless Steel Insertion Flowmeters (NEMA 4X Enclosure) | | | | | |
| 1 ½ in to 10 in | | | SDI1D1N00-0200 | 49DF25 | |
| 1 ½ in to 10 in | | | SDI0D1N00-0200 | 49DF29 | |
| 12 in to 36 in | 352 to 63,452 gpm | 316 Stainless Steel, Brass, | SDI1D2N00-0200 | 49DF26 | |
| 12 in to 36 in | 352 to 63,452 gpm | | SDI1D2N11-0200 | 49DF27 * | |
| 12 in to 36 in | 352 to 63,452 gpm | PEEK, PPS Tip | SDI1D2N10-0200 | 49DF28 | |
| 12 in to 36 in | 352 to 63,452 gpm | I LLN, FFO IIP | SDI0D2N00-0200 | 49DF30 | |
| 12 in to 36 in | 352 to 63,452 gpm | | SDI0D2N11-0200 | 49DF31 * | |
| 12 in to 36 in | 352 to 63,452 gpm | | SDI0D2N10-0200 | 49DF32 | |
| * I CD display † FPDM = ethylene propylene diene monomer rubber PFFK = | | | | | |

* LCD display. † EPDM = ethylene propylene diene monomer rubber, PEEK = polyetheretherketone, PPS = polyphenylene sulfide, UHMWPE = ultra-high-molecularweight polyethylene.

