The **Series UFB Ultrasonic Flowmeter Sets** utilize the transit-time difference for measuring flow rates in pipes. These units are permanent mount, where the converters can be mounted on a surface or pipe with a 4-20 mA and pulse output capabilities for pipe sizes from 1/2 to 79˝ (13 to 2000 mm).

**FEATURES/BENEFITS**
- Non-invasive pipe measurement
- Easy-to-use compact and lightweight design, intended for homogeneous liquids that contain no air
- Simple installation with all necessary components included such as converter, sensor, cables and mounting accessories
- Sturdy IP65 rating, protecting it from dust and direct water contact

**APPLICATIONS**
- Water treatment
- Industrial systems
- Irrigation applications
- Treated water flow
- River water
- Sea water
- Potable water
- Demineralized water
- Glycol/water mix
- Hydraulic system
- Diesel oil
- Water use data logging

**KIT INCLUDES**
- Converter
- Set of transducers
- Ruled guide rail
- Steel banding
- Banding clips
- Set of transducer cables
- Set of high temperature interface cables
- Ultrasonic coupling grease

**SPECIFICATIONS**
- **Service:** Homogeneous liquids that do not contain more than 3% of air bubbles or particulate and capable of ultrasonic wave propagation.
- **Inputs:** TNC cable from sensors.
- **Range:** 0.33 to 33 ft/s (0.1 to 10 m/s).
- **Display:** 240 x 64 pixel graphic display, high contrast black on white with backlight; Languages: English, French, German, Swedish, Italian, Spanish, Portuguese, Russian, Norwegian, and Dutch; 5˝ W x 1 3˝ H (5 x 33.02 mm).
- **Accuracy:** ±0.5 to ±2% of flow reading for flow rate > 0.03 ft/s (0.01 m/s) and pipe OD > 3.0 in (75 mm); ±3% of flow reading for flow rate > 0.03 ft/s (0.01 m/s) and pipe OD 0.5 to 3 in (13 to 75 mm); ±6% of flow reading for flow rate < 0.03 ft/s (0.01 m/s).
- **Power Requirements:** 86-264 VAC (50 to 60 Hz) or 24 VAC/VDC (1 A max).
- **Power Consumption:** 10.5 W.
- **Temperature Limits:** Transducer: -4 to 275°F (-20 to 135°C); Controller: -4 to 122°F (-20 to 50°C).
- **Outputs:** Analog 1 opto-isolated output: 4-20 mA, 0-16 mA or 0-20 mA (selectable); Error current: 0-26 mA (selectable); Load resistance: 620 Ω max; Alarm: 2 opto-isolated MOSFET NO relays, 48 V at 500 mA, maximum 200 Hz; Pulsed: 1 opto-isolated MOSFET relay, 48 V at 500 mA, 1 to 250 pps; Pulse width: 2 to 500 ms (selectable).
- **Enclosure Rating:** IP65 when using TNC connector; Transducers IP54.
- **Materials:** Plastic ABS and aluminum.
- **Repeatability:** ±0.5 % of measured value or 0.03 ft/s (0.01 m/s).
- **Electrical Connections:** Removable screw-in type terminal block.
- **Mounting:** Wall mounted using 3 type M4 screws.
- **Turbidity:** < 3 % by volume of particulate content.
- **Permissible Air Content:** < 3% by volume.
- **Response Time:** < 500 ms.
- **Weight:** Unit not including accessories: 2.80 lb (1.26 kg); Unit including accessories: 9.92 lb (4.5 kg).
- **Agency Approvals:** CE.

**ADDITIONAL SPECIFICATIONS**
- **Applicable Pipe Material:** Carbon steel, SS, copper, UPVC/PVDF, concrete, mild steel, glass, brass.
- **Applicable Pipe Lining:** Rubber, glass, concrete, epoxy, steel, other*.
- **Pipe Wall Thickness:** 0.04 to 3” (1 to 75 mm).
- **Pipe Lining Thickness:** < 1” (~ 25 mm).

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**OPTIONS**

<table>
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<tr>
<th>Use order code:</th>
<th>Description</th>
<th>Price</th>
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<td>NISTCAL-FU</td>
<td>NIST traceable calibration certificate</td>
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*Selectable option for special material with known propagation rate of lining material.

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USA: California Proposition 65

**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov