

**VERIS INDUSTRIES**

16640 SW 72nd AVENUE  
 PORTLAND, OREGON 97224 USA  
 (503) 598-4564 FAX (503) 598-4664  
 1-800-354-8556  
 http://www.veris.com email:sales@veris.com



# Ultrasonic Flow Meters

## Units, Material and Fluid Options

	<u>Notes</u>
<b>Display Units</b>	The units the programmed display will show after your data is entered at the factory
English	
Metric	
<b>Pipe Materials</b>	Material the transducers will mount on
Acrylic	
Aluminum	
Asbestos Cement	
Brass (Naval)	
Carbon Steel	
Cast Iron	
Copper	
CPVC	
Ductile Iron	
Fiberglass Epoxy	
Glass Pyrex	
HD Polyethylene	
LD Polyethylene	
Nylon	
PFA	
PFA Teflon	
Polypropylene	
PVC	
PVDF	
Stainless Steel 302/303	
Stainless Steel 304/316	
Stainless Steel 410	
Stainless Steel 430	
Titanium	
<b>Flow Rate and Totalizer Units</b>	Units to display and show totals
Gallons	
Liters	
Millions of Gallons	
Cubic Feet	
Cubic Meters	
Acre Feet	
Oil Barrels (42 gal)	
Liquor Barrels (31.5 gal)	
Feet	
Meters	
Pounds	
Kilograms	
British Therm Units (BTU)	
Thousands of BTUs (MBTU)	
Millions of BTUs (MMBTU)	
Tons	

	<u>Notes</u>
<b>Liner Material</b>	Material coating inside pipe
Ebonite	
HD Polyethylene	
LD Polyethylene	
Mortar	
None	
Polypropylene	
Polystyrene	
Rubber	
Tar Epoxy	
Teflon (PFA)	
<b>Fluid</b>	Meter will measure the flow of this
Acetone	
Alcohol	
Ammonia	
Benzene	
Brine	
Ethanol	
Ethylene Glycol	
Gasoline	
Glycerin	
Isopropyl Alcohol	
Kerosene	
Methanol	
Oil Diesel	
Oil Hydraulic	
Oil Lubricating	
Oil Motor [SAE 20/30]	
Sewage - Raw	
Water Distilled	
Water Sea	
Water Tap	
<b>Flow RateTime Units</b>	
Sec	
Min	
Hour	
Day	
<b>Totalizer Exponent</b>	Multiplier
E-1 = x 0.1 (÷10)	
E0 = x 1 (no multiplier)	
E1 = x 10	
E2 = x 100	
E3 = x 1,000	
E4 = x 10,000	
E5 = x 100,000	
E6 = x 1,000,000	

# Product Configuration Worksheet: Ultrasonic Flow Meters

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## Meters #1 thru #5

<b>Company Name:</b>
<b>Date:</b>
<b>Customer P. O. #:</b>
<b>Specified by:</b> (name)
<b>Veris Customer Order #</b> (provided by Veris)

**Meter #1 \***     **#2 \***     **#3 \***     **#4 \***     **#5 \***  
 No Program.     No Program.     No Program.     No Program.     No Program.

	Meter #1 *	#2 *	#3 *	#4 *	#5 *	
<b>Display <u>Units</u> after Programming:</b> (English or Metric)						Units
<b>Transducer Model:</b>						Transducer
<b><u>Transducer</u></b> (description)						
<b><u>Pipe Material:</u></b> (choose)						Pipe
<b><u>Pipe Outside Diameter</u> (inches):</b> (example: 1.250 or .750)						
<b><u>Pipe Wall Thickness</u> (inches):</b> (example: .250 or .055)						
<b><u>Liner Material</u> (inside pipe):</b>						Liner
<b><u>Liner Material Thickness</u> (inches):</b> (example: .005 or .012)						
<b><u>Fluid</u> (to be metered):</b>						Fluid
<b>Monitor Display Model :</b>						Display
<b>Monitor Display Description</b>						
<b><u>Flow Rate Units:</u></b>						Units
<b>Flow Rate <u>Time Units:</u></b>						
<b><u>Totalizer Units:</u></b>						
<b>Totalizer Units <u>Exponent:</u></b>						
<b><u>Min Flow</u> (units/time):</b> (example: 0 or xxxxx.xxxxx)						Span
<b><u>Max Flow</u> (units/time):</b> (example: 1.0 or xxxxx.xxxxx)						

**Notes:**

\* If you do not want the product factory programmed, mark the box below the meter #.  
a) Displays programmed to be used in the "V" transducer configuration.

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<b>Company Name:</b>	
<b>Date:</b>	
<b>Customer P. O. #:</b>	
<b>Specified by: (name)</b>	
<b>Veris Customer Order #</b> (provided by Veris)	

## Meters #6 thru #10

**Meter #6 \***   
  **#7 \***   
  **#8 \***   
  **#9 \***   
  **#10 \***  
 No Program.   
  No Program.   
  No Program.   
  No Program.   
  No Program.

<b>Display <u>Units</u> after Programming:</b> (English or Metric)						Units
<b>Transducer Model:</b>						Transducer
<b><u>Transducer</u></b> (description)						
<b><u>Pipe Material:</u></b> (choose)						Pipe
<b><u>Pipe Outside Diameter</u> (inches):</b> (example: 1.250 or .750)						
<b><u>Pipe Wall Thickness</u> (inches):</b> (example: .250 or .055)						Liner
<b><u>Liner Material</u> (inside pipe):</b>						
<b><u>Liner Material Thickness</u> (inches):</b> (example: .005 or .012)						Fluid
<b><u>Fluid</u> (to be metered):</b>						
<b>Monitor Display Model :</b>						Display
<b>Monitor Display Description</b>						
<b><u>Flow Rate Units:</u></b>						Units
<b>Flow Rate <u>Time Units:</u></b>						
<b><u>Totalizer Units:</u></b>						
<b>Totalizer Units <u>Exponent:</u></b>						Span
<b><u>Min Flow</u> (units/time):</b> (example: 0 or xxxxx.xxxxx)						
<b><u>Max Flow</u> (units/time):</b> (example: 1.0 or xxxxx.xxxxx)						

**Notes:**

\* If you do not want the product factory programmed, mark the box below the meter #.  
a) Displays programmed to be used in the "V" transducer configuration.

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## Meters #11 thru #15

<b>Company Name:</b>	
<b>Date:</b>	
<b>Customer P. O. #:</b>	
<b>Specified by: (name)</b>	
<b>Veris Customer Order #</b> (provided by Veris)	

**Meter #11 \***

No Program.

**#12 \***

No Program.

**#13 \***

No Program.

**#14 \***

No Program.

**#15 \***

No Program.

<b>Display <u>Units</u> after Programming:</b> (English or Metric)						Units
<b>Transducer Model:</b>						Transducer
<b><u>Transducer</u></b> (description)						
<b><u>Pipe Material:</u></b> (choose)						Pipe
<b><u>Pipe Outside Diameter</u> (inches):</b> (example: 1.250 or .750)						
<b><u>Pipe Wall Thickness</u> (inches):</b> (example: .250 or .055)						
<b><u>Liner Material</u> (inside pipe):</b>						Liner
<b><u>Liner Material Thickness</u> (inches):</b> (example: .005 or .012)						
<b><u>Fluid</u> (to be metered):</b>						Fluid
<b>Monitor Display Model :</b>						Display
<b>Monitor Display Description</b>						
<b><u>Flow Rate Units:</u></b>						Units
<b>Flow Rate <u>Time Units:</u></b>						
<b><u>Totalizer Units:</u></b>						
<b>Totalizer Units <u>Exponent:</u></b>						
<b><u>Min Flow</u> (units/time):</b> (example: 0 or xxxxx.xxxxx)						Span
<b><u>Max Flow</u> (units/time):</b> (example: 1.0 or xxxxx.xxxxx)						

**Notes:**

\* If you do not want the product factory programmed, mark the box below the meter #.

a) Displays programmed to be used in the "V" transducer configuration.