

Take quick, easy flow measurements from outside the pipe!



Greyline TTFM 6.1 Transit Time Flowmeters

- Accurate non-contacting flow measurement for clean liquids
- Built-in 26-million point data logger with USB data transfer
- Modbus RS-485 communication option

Measure flow of clean non-aerated liquids including water, chemicals and oils without shutting down your system. These transit time flowmeters feature ultrasonic clamp-on transducers that mount easily to the outside of full plastic or metal pipes—no pressure drop or obstruction to fluid flow.

Start-up and commissioning take just minutes—built-in five-button keypad ensures quick configuration with menu selection of pipe diameter, pipe material, liquid type and measurement units (gallons, liters, etc.). All settings, calibration values and totalization information are retained during power interruptions.

Physical transducer installation is simple—display indicates the correct transducer separation distance and mounting method based on setup data. Simply align the mounting brackets on the outside of the pipe, and secure with the included stainless steel pipe clamps; pipe larger than 30"OD requires additional clamps to extend length (sold separately).

Once transducers are inserted into the brackets, meter immediately starts to display, transmit and totalize flow. Transducers are waterproof for operation in wet environments or accidental submersion (up to 10 psi); rated non-incendive for hazardous locations. Additional transducer mounting kits are available separately, including models that absorb HDPE pipe expansion in outdoor applications, and heavy-duty kits that accept conduit connections.

Choose from AC- or DC-powered flowmeters. All models feature a built-in 26-million point data logger with Greyline PC software. Download logged data to your computer via a USB memory stick (sold separately). Transducer cable lengths are field-extendable up to 500'L on all meters (shielded cable and junction box required; sold separately).

Includes: pair of transducers with basic mounting kit and alignment bar, stainless steel mounting clamps (for pipe up to 30" OD) and coupling compound.



Download data via a USB memory stick (sold separately).

MFR #	POWER	TRANSDUCER CABLE	MODBUS RS-485	STOCK #	EACH
TTFM 6.1-A1A1B1A1A	100-240 VAC	25'L	No	53211	\$
TTFM 6.1-A1A1B1B1A	100-240 VAC	50'L	No	53212	
TTFM 6.1-A1A1B1C1A	100-240 VAC	100'L	No	53213	
TTFM 6.1-A1A1B1B2A	100-240 VAC	50'L	Yes	53214	
TTFM 6.1-B1A1B1B1A	9-32 VDC	50'L	No	53215	

Replacement Items & Accessories

DESCRIPTION	STOCK #	EACH
USB 4-GB Memory Stick	67228	\$
Replacement Coupling Compound, 3 oz	15171	
Extra Transducer Cable (Sold Per Foot)	53216	/ft.
Junction Box (to Splice Extra Cable)	41564	
Enclosure Sun Screen	33391	

Optional Transducer Mounting Kits

DESCRIPTION	STOCK #	EACH
Heavy-Duty Pair SS Brackets/Clamps, Alignment Ruler for 8"+ Pipe	53218	\$
Heavy-Duty Pair SS Brackets/Clamps, Alignment Ruler for 2 to 6" Pipe	53217	
Expansion Spring Pair Brackets/Clamps for Outdoor HDPE Install, 8"+ Pipe	53220	
Expansion Spring Pair Brackets/Clamps, for Outdoor HDPE Install, 2 to 6" Pipe	53219	
Basic Kit SS Pipe Clamp Extensions, up to 9" OD	11608	
Basic Kit SS Pipe Clamp Extensions, up to 22" OD	11609	



Accuracy:	±1% of reading above 1.5 ft/sec; 0.015 ft/sec below 1.5 ft/sec
Repeatability:	±0.25%
Flow velocity:	±0.07 to 39 ft/sec typical
Pipe size:	2 to 48"
Pipe materials:	any metal or plastic sonic-conducting material including carbon steel, stainless steel, ductile iron, concrete-lined ductile iron, cast iron, PVC, HDPE, PVDF, fiberglass, copper, brass, aluminum and pipes with bonded liners including epoxy, rubber and Teflon®
Display:	white backlit matrix; displays 5-digit flow rate with floating decimal and 14-digit totalizer
Analog output:	one isolated 4-20 mA/0-5V
Communication:	USB for data log transfer by memory stick (standard), Modbus RTU via RS-485 (stock # 53214 only)
Control relays:	two 5A, SPDT programmable for alarm and/or flow-proportional pulse
Data logger:	built-in 26-million point logger with USB output and Windows® software
Power:	100-240 VAC 50-60 Hz or 9-32 VDC (varies by model)
Enclosure:	watertight/dust-tight NEMA 4X (IP66) polycarbonate w/ clear, shatterproof cover
Operating temp	
Display:	-5 to 140°F (-20 to 60°C)
Sensor:	-40 to 300°F (-40 to 150°C)
Sensor cable:	25'L, 50'L or 100'L (varies by model); BNC connections and seal jackets

Our **100% satisfaction guarantee** and hassle-free, 30-day return policy ensure that great service doesn't end with the sale.