


FLOWSUPPLIES Ultrasonic Clamp-on Flow-meters

Model: STUF100		TYPE: Portable Clamp-on Transit-Time Flowmeter FEATURES: High Accuracy, Wide Pipe size range, Wide flow range (Bi-directional), Non- Intrusive, Signal quality tracking and self-adaption to match pipe and fluid variations, re-chargeable battery with 10 hours operation. Built-in datalogger
PRODUCT SPECIFICATION		
✚	Linearity	0.5%
✚	Repeatability	0.2%
✚	Accuracy	Normally better than +/-1%, could be +/-0.5% with on-site calibration
✚	Response Time	0-999 seconds, user configurable
✚	Velocity	+/-0.03 - +/-105 ft/sec (+/-0.01 - +/-32 m/s), Bi-directional
✚	Pipe Size	3/4" – 240" (DN20mm – DN6000mm)
✚	Pipe Material	All metals, plastics, concrete and lined pipes
✚	Totaliser	7 – digit totals for net, positive and negative flow respectively
✚	Liquid Types	Virtually all clean liquids and liquids with minor solids (<10,000ppm) full pipe
✚	Units	English (US) or other international metric units
✚	Liquid Temperature	32°F - 212°F (0°C - 100°C)
✚	Display	LCD with backlight, 4x16 letters
✚	Security	Setup values Modification Lockout. Access code needs unlocking
✚	Communication Interface	Rs232C
✚	Transducer cable	Standard 2x15' (2x5m). Contact the factory for longer cable needs
✚	Transducers	Model M1 for standard, other 3 models for optional
✚	Power Supply	3 AAA Ni-H built-in batteries. When fully recharged it will last over 10 hours of operation. 100V-240VAC for the charger
✚	Data Logger	Built-in data logger can store over 2000 lines of data
✚	Housing material	Aluminium alloy protective case. Suitable for normal and harsh environment
✚	Case Size	7.9"x3.6"x1.3" (200mmx92mmx32mm)
✚	Handset Weight	1.2 lbs (538g) with batteries
✚	TRANSDUCER TYPES	
✚	Clamp-on Type	S1: DN15 – 100mm M1: DN50 – 700mm L1: DN300 – 6000mm S1H (high temp type): DN15 – 100mm M1H (high temp type): DN50-700mm
✚	Sensor Cable	Shielded transducer cable length: 2 x 5m. Can be extended to 500m
✚	Pipe size	DN15mm – DN6000mm
✚	Pipe material	All metal, plastics and fibreglass etc
✚	Straight run of pipe	Upstream 10D and downstream 5D
✚	Liquid types	Virtually all most commonly used liquids (full pipe), pure, suspension, electrically conductive or non-conductive
✚	Liquid Temperature	-40°C - 312°C
✚	Suspension/Concentration	<2%, particle size smaller than 20000ppm (will measure sewage)
✚	Temperature	-40°C - 70°C for standard version -40°C - 155°C for high temperature version
✚	Humidity	Main unit: 85%RH Transducer: IP68. Water-immersible, water depth less than 3m

<p>Model: TDS-100</p>		<p>TYPE: Fixed Clamp-on Transit-Time Flowmeter</p> <p>FEATURES: High Accuracy, Wide Pipe size range, Wide flow range (Bi-directional), Non- Invasive, Signal quality tracking and self-adaption to match pipe and fluid variations, RS-485 & MOD-BUS. Three Wire system PT-100 resistance Input for Heat measurement.</p>
<p>PRODUCT SPECIFICATION</p>		
<p>✚ Accuracy</p>	<p>+/-1.0% of velocity reading or +/-0.02ft/s, whichever is bigger Could be as high as +/-0.5% when in-situ calibration is used</p>	
<p>✚ Repeatability</p>	<p>Better than 0.2%</p>	
<p>✚ Velocity</p>	<p>+/-0.01 to 64m/s, bi-directional</p>	
<p>✚ Measurement period</p>	<p>0.5S. Can be set to 0-99S</p>	
<p>✚ Display/Keypad</p>	<p>LCD backlight with 2x20 letters 4x4 tactile-feedback membrane keypad Display instantaneous flow rate, accumulated flow rate, (positive, negative and net), velocity, time, analog input, etc</p>	
<p>✚ Signal Output</p>	<p>4-20mA current output (optional): impedance 600ohms, accuracy 0.1% Relay output (optional): For ON/OFF control, alarmdriver, totaliser output, etc Pulse signal output: For output of accumulated flow/heater rate, (positive, negative and net), two channels OCT output (the pulse width of one channel is 6-1000ms, the default value is 200ms). Frequency output: 1-9999Hz optional. OCT output. Sound alarm: two channels output, 20 kinds of origin signals optional. Isolated RS485 port (SATA)</p>	
<p>✚ Signal Input</p>	<p>Three channels 4-20mA input optional, accuracy 0.1%, can input the signal of pressure, level, temperature, etc, and also used as a digital port Two channels three wires system PT100 resistance input for heater measurement. (enthalpy potential method)</p>	
<p>✚ Communication Interface</p>	<p>Isolated RS485, support MOD-BUS, Optional GPRS/GSM module for networking, remote monitoring and remote control. MODBUS-RTU or MODBUS-ASCII recommended.</p>	
<p>✚ Other functions</p>	<p>Automatically record the following information:</p> <ul style="list-style-type: none"> ✚ The totaliser of the last 64 days/32 months/ 2 years ✚ The time and corresponding flow rate of the last 16 times of power ON/OFF events. Allow manual and automatic flow loss compensation ✚ Programmable quota controller (Driven by external input command or MODBUS command) ✚ One Bi-directional SATA port for connecting external equipment, e.g. 4-20mA, data-logger printer, etc ✚ Working setting parameters solidified in FLASH and automatically read from the FLASH while power ON. ✚ Malfunction timer and auto diagnostics 	
<p>✚ Enclosure</p>	<p>IP65 (NEMA4X) weather resistant</p>	
<p>✚ Power Supply</p>	<p>85 – 264V AC/ 24VDC</p>	
<p>✚ Weight</p>	<p>2.5kgs (5lb)</p>	
<p>✚ Measurement</p>	<p>230mm x 150mm x 75mm</p>	
<p>✚ Clamp-on Type</p>	<p>S1: DN15 – 100mm M1: DN50 – 700mm L1: DN300 – 6000mm S1H (high temp type): DN15 – 100mm M1H (high temp type): DN50-700mm</p>	
<p>✚ Insertion type</p>	<p>Installed with manufacturing. For pipe size over DN80mm</p>	
<p>✚ Sensor Cable</p>	<p>Shielded transducer cable length: 2 x 5m. Can be extended to 500m</p>	
<p>✚ Pipe size</p>	<p>DN15mm – DN6000mm</p>	
<p>✚ Pipe material</p>	<p>All metal, plastics and fibreglass etc</p>	
<p>✚ Straight run of pipe</p>	<p>Upstream 10D and downstream 5D</p>	
<p>✚ Liquid types</p>	<p>Virtually all most commonly used liquids (full pipe), pure, suspension, electrically conductive or non-conductive</p>	
<p>✚ Liquid Temperature</p>	<p>-40°C - 312°C</p>	
<p>✚ Suspension/Concentration</p>	<p><2%, particle size smaller than 20000ppm (will measure sewage)</p>	
<p>✚ Temperature</p>	<p>-40°C - 70°C for standard version -40°C - 155°C for high temperature version</p>	
<p>✚ Humidity</p>	<p>Main unit: 85%RH Transducer: IP68. Water-immersible, water depth less than 3m</p>	

Sole Distributor in India:

HINDUSTAN WATER ENGINEERING COMPANY

HWE Bhavan, 47, INDUSTRIAL AREA, MANDSAUR (M.P.) INDIA Pin-458 001

Ph: 07422 256133 Fax: 07422 232342

Email: info@hweindia.com, hweindia@yahoo.co.in Website: www.hweindia.com