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ULTRASONIC BTU METER

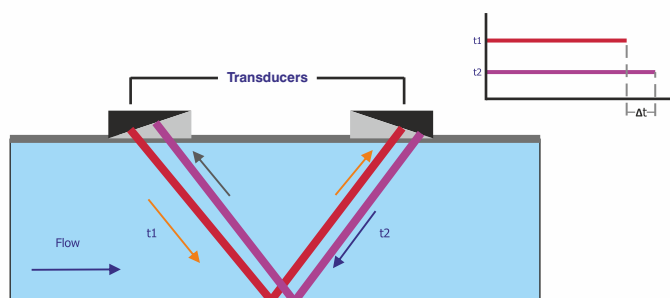
Model : UBTUc and UBTUi

Manas have now Introduced a new Clamp on type Ultrasonic BTU Meter and Insertion BTU Meter. Clamp on type Ultrasonic BTU Meter and Insertion BTU Meter works on the Transit Time or Time of Flight principle. The Flow meter unit utilizes two transducers that function as both Ultrasonic transmitter and receiver. The transducers are either clamped on or inserted to the outside surface of the closed pipes.

BTU 100 L is a versatile compact energy totalizer, extremely useful for measurement of energy consumed. It measures the thermal energy required for air conditioning. It accepts 3 inputs, each one from a flow meter for chilled water, inlet temperature sensor and the outlet temperature sensor. From this it calculates the thermal power and energy consumed in maintaining the temperature at given level.

FEATURES

- Sizes available for 2" to 80" (DN50 - DN2000)
- The meter contains no moving parts and fast response to flow transits
- Highly accurate and reliable
- Isolated 4-20 mA output proportional to flow rate
- No need to cut the pipe or stop water, easy Installation for Clamp on Type

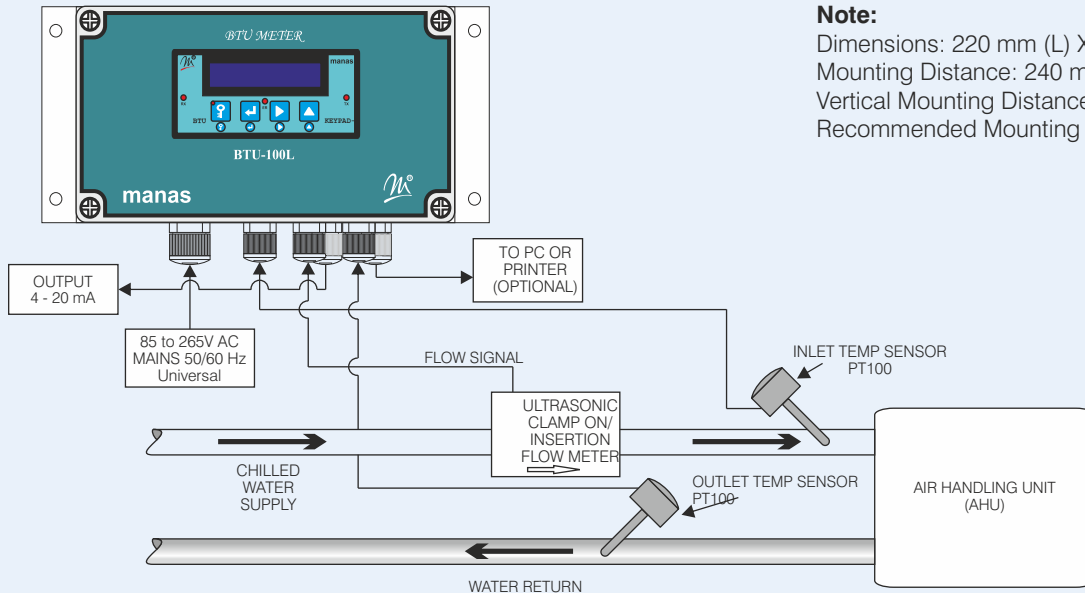


ADVANTAGES

- Compact wall mounting design with IP 67 enclosure
- Choice of Engg. Units : KW / MBTU / TR
- Serial Interface with computer through MODBUS RTU / MODBUS IP / BACnet IP

TECHNICAL SPECIFICATION

Input	: a) 4 – 20 mA dc Input (From Ultrasonic Flow Meter) b) RTD, PT – 100 (Inlet Temperature) c) RTD, PT – 100 (Outlet Temperature)
Output	: 4-20 mA dc in max. 600 Ω load, Isolated, Proportional to Power.
Display	: 16 $\times$ 2 Characters LCD Display with Backlight
Totaliser Backup	: Backup of Total Flow maintained on Power Failure
Power Unit	: MBTU/hr or KW Programmable.
Energy Unit	: MBTU / KW/hr
Accuracy	: $\pm 2\%$ of Full Scale
Operating Temperature	: 0 - 50°C
Temperature Drift : 0.015 % / °C maximum of Full Scale	
Relative Humidity : 90% R.H.max. Non Condensing	
Data Storage	: a) 4900 readings (Hourly Logging) as standard feature b) 9800 readings (as per customers requirement)
PC Communication : Protocol : MODBUS RTU / MODBUS IP / BACnet IP Communication : RS232 or RS485 (default). (Only for MODBUS RTU)	
Power Supply	: 85 V to 265 V AC



Note:

Dimensions: 220 mm (L) X 120 mm (B) X 90 mm (D) Horizontal
Mounting Distance: 240 mm
Vertical Mounting Distance: 90 mm
Recommended Mounting Bolt: M6

ORDERING INFORMATION

Sample code explained: UBTUc - CTm - PS3030 W - BTU 100 L - RS485 - 1L - U

UBTUc	Transducer Model	PS3030 W	Transmitter Model
	UBTUc : Clamp on Type UBTU _i : Insertion Type		PS3030 W
CTm	Line Size	BTU 100 L	BTU Calculator
	Sensor for Clamp on Type		BTU 100 L
	CTm : DN50 to Dn250 CT _i : DN300 to DN2000		
	Sensor for Insertion without Spool	RS485	Communication Facility
	CT _i Probe : DN50 - DN2000		RS485 RS232 MODBUS IP BACNET IP
	Sensor for Insertion with Spool	1L	Data Logging
	DN50 : 2" DN600 : 24" DN65 : 2 1/2" DN700 : 28" DN80 : 3" DN750 : 30" DN100 : 4" DN800 : 32" DN150 : 6" DN900 : 36" DN200 : 8" DN1000 : 40" DN250 : 10" DN1200 : 48" DN300 : 12" DN1400 : 56" DN350 : 14" DN1600 : 64" DN400 : 16" DN1800 : 72" DN500 : 20" DN2000 : 80"	U	Power Supply
			U : 85 - 265 V AC 3 : 12 - 24 V DC

Due to continuous development specifications are subject to change without prior notice.



Manas Microsystems Pvt. Ltd.

EL 54, Electronic Zone, Tel: 020 2712 7044/ 45
J-block, MIDC Bhosari, Mob: +91 8484039026
Pune 411026. mktg@manasmicro.com
Maharashtra, India. www.manasmicro.com

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