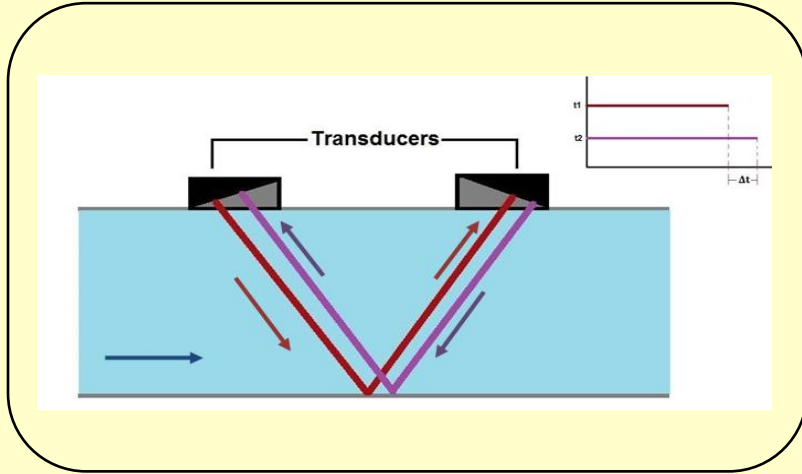


Clamp on type Ultrasonic BTU Meter and Insertion BTU Meter. Model : UBTU_c & UBTU_i



Features :

- Sizes available for 1" to 24" [DN25 -DN600]
- 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.

Description:

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.

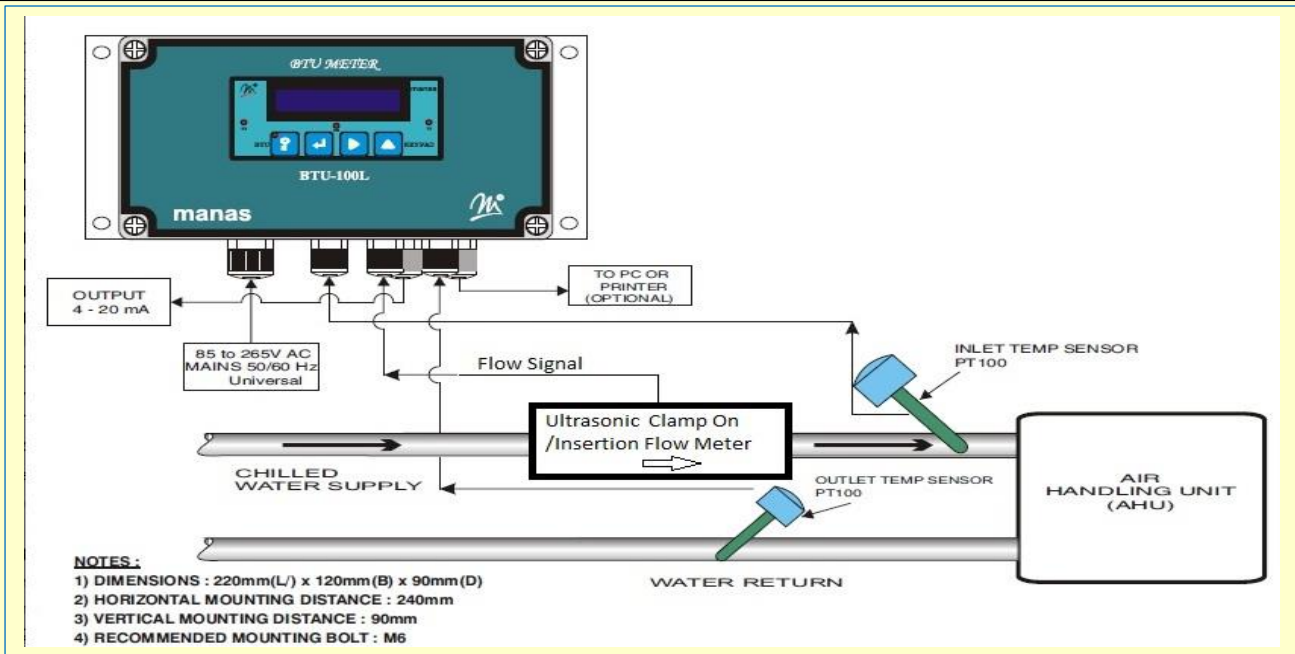
BTU 100 L is a versatile compact energy totalizer, extremely useful for measurement of energy consumed. It measures the thermal energy required for air conditioning. It accepts 3 inputs, each one from a flow meter for chilled water, inlet temperature sensor and the outlet temperature sensor. From this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

Advantages:

- Compact Wall Mounting design with IP 67 Enclosure.
- Choice of Engg. Units : KW / MBTU
- Serial Interface with computer through MODBUS RTU / MODBUS 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 × 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 | : ± 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. Communication : RS232 or RS485 (default). [Only for MODBUS RTU] |
| Power Supply | : 85 V to 265 V AC, 50 Hz, Universal. |



Ordering Information

| | | | |
|--|---------------------|-------|-------|
| TRANSDUCER MODEL | | | |
| UBTU _c | : Clamp on Type BTU | | |
| UBTU _i | : Insertion Type | | |
| LINE SIZE (SENSOR for Clamp on Type) | | | |
| CT _s | : DN25 to DN40 | | |
| CT _m | : DN50 to DN250 | | |
| CT _l | : DN300 to DN600 | | |
| LINE SIZE (SENSOR for Insertion Without Spool) | | | |
| CT _i Probe | : DN50 - DN600 | | |
| LINE SIZE (SENSOR for Insertion With Spool) | | | |
| DN50 | : 2" | DN250 | : 10" |
| DN65 | : 2 ½" | DN300 | : 12" |
| DN80 | : 3" | DN350 | : 14" |
| DN100 | : 4" | DN400 | : 16" |
| DN150 | : 6" | DN500 | : 20" |
| DN200 | : 8" | DN600 | : 24" |
| TRANSMITTER MODEL | | | |
| PS3030 W | | | |
| BTU CALCULATOR | | | |
| BTU 100 L | | | |
| COMMUNICATION FACILITY | | | |
| RS485 | | | |
| RS232 | | | |
| MODBUS IP | | | |
| DATA LOGGING | | | |
| 1L | | | |
| POWER SUPPLY | | | |
| U | : 85 - 264 V AC | | |
| 3 | : 12 - 24 V DC | | |

UBTU_c / UBTU_i CT_m PS3030 BTU 100L RS4 1L U

Sample Ordering Information.

**Due to Continuous development Specifications are Subject to change without prior notice.*

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Catalogue No. : Fc-COU-INU-BTU-01