

a name that spells trust

AN ISO 9001: 2008 COMPANY





BTU Meter : Series BTU 100

Advantages:

- Compact Wall mounting design with IP 65 Enclosure
- 16x2 LCD for total energy as well as instantaneous power.
- Display of chilled water flow, power temperature available.
- Choice of mounting either on inlet or on outlet as per site conditions.
- Choice of Engg. Units: KW or BTU
- Data storage up to 1 year with hourly storage facility with real time.
- Storage can be viewed by scrolling keys.
- Serial Interface with computer through MODBUS RTU.

BTU 100 L is a versatile compact energy totalizer, extremely useful for measurement of energy conversion. 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. 9 digits are available for total energy and four digits are available for instantaneous power reading. The engg. Unit can be selected by user, either as KW & KWHr Or BTU / Hr & BTU

*Technical Specifications:

Input : a) 4 - 20 mA from flow meter

b) RTD, PT - 100 (Inlet Temperature)c) RTD, PT - 100 (Outlet Temperature)

Output : Isolated 4- 20 mA proportional to power output.

Display : 16x2 LCD, 9 digits for total energy & 5 digits for instantaneous

power.

Totaliser Backup : Back up for total energy provided on power failure for 2½ years

Power Unit: BTU/Hr or KW Configurable Energy Unit: BTU or KWHr Configurable

Key Board : 4 no. of keys for programming of parameters.

Accuracy : \pm 0.25% of F.S. w.r.t. inputs.

Operating Temperature : 0 to 50 $^{\circ}$ C. Temperature Drift : \pm 0.015 % / $^{\circ}$ C

Relative Humidity : 90% R.H.max. Non condensing.

Data Storage : 4900 readings (Hourly Logging) as standard feature.

9800 readings as an optional feature.

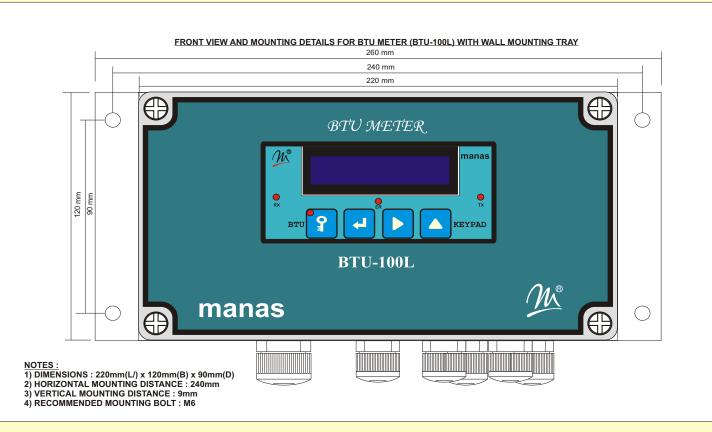
Log View : Possible by scrolling of keys.
Fault Condition : Indicated by various error codes.

Comm. Port : RS 232 or RS485 as per customer's choice with MODBUS RTU Protocol

Power Supply : 85 Vac to 265 Vac, 50 Hz, single phase.

Construction : Aluminum Die cast housing with IP65 Protection. (Wall Mounting)

Dimensions : 220 mm (L) x 120 mm (H) x 90 mm (D)



Note: "End Connections" EC-02 and EC-03 are available only with line sizes from 1" to 4" and with Body Materials, BM-02 and BM-03

Ordering Information:

from 1" to 4" and with Body Materials, BM-02 a			
•		FLOW METER S	
		DN 25 : 1"	DN 80 : 3"
		DN 32 : 1 1/4"	DN 100 : 4"
		DN 40 : 1 ½"	DN 150 : 6"
		DN 50 : 2"	DN 200 : 8"
		DN 65 : 2 ½"	DN 250 : 10"
BODY MATERIAL			
		BM-02: SS304	
		BM-03: SS316	
	END CONNECTIONS EC-01 : Flanged-ANSI 150 EC-02 : SMS Union EC-03 : Tri-clover Clamp EC-04 : Wafer Style		
	FLANGE MATERIAL FM -01: Mild Steel/C.S. FM-02: SS 304 FM-03: SS 316		
	POWER SUPPLY 01 : 110 VAC ± 10%, 50 Hz		
	02 : 230 VAC ± 10%, 50Hz		
BTU DN 50 BM-01 EC-01 FM-01 PS-02 SAMPLE ORDERING CODE			
2.100 2.1.01 20 01 1 1 01 02 02 03 1 1 1 1 0 02 0 0 1 1 1 1 0 0 0 0 0 0 0			

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

manas microsystems pvt. ltd.

REGD. OFFICE: ROW HOUSE NO. 5, PARVATI PARK, DATTAWADI, PUNE 411 030 WORKS: EL 54 ELECTRONIC ZONE, M.I.D.C. BHOSARI, PUNE 411 026. (INDIA)

TEL.: 020-27127044,27127047, 27127858 FAX: 020-27127045 E-MAIL: mktg@manasmicro.com, manasmicro@yahoo.com WEBSITE: www.manasmicro.com, www.flowmeterindia.in





