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BTU Meter Series BTU 100



Description

BTU 100 L is a versatile compact energy totalizer extremely useful for energy conversion. It measures the thermal energy required for air conditioning. It accepts 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 and KWH or MBTU / Hr and BTU.

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 : MBTU / KWh/TR
- 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 / MODBUS IP / BACNET IP

Technical Specifications

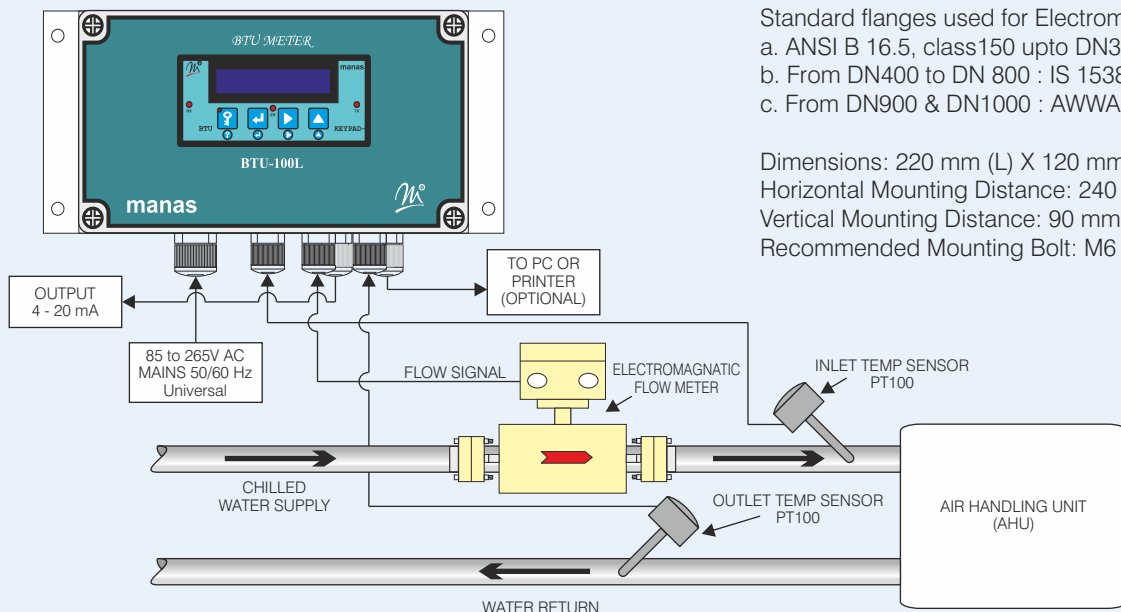
Input	: a) 4 - 20 mA from flow meter b) RTD, PT - 100 from Inlet Sensor c) RTD, PT - 100 from Outlet Sensor
Output	: Isolated 4 - 20 mA proportional to power output
Display	: 16x2 LCD, 9 digits for total energy and 5 digits for instantaneous power
Totalizer Backup	: Backup of Total Flow maintained on Power Failure
Power Unit	: MBTU/hr / KW Programmable
Energy Unit	: MBTU / KWh/TR
Zero Cut-off	: 0.2%, 0.5%, 1.0%, 1.5%, 2.0% Programmable
Accuracy	: $\pm 0.25\%$ of Full Scale

Key Board	: Four Number of Keys for Parameter Programming (Note : Accessible on opening the cover of the BTU-100L) Four magnetically operated keys for parameter programming (Note : Accessible without opening the cover of the BTU-100L)
Operating Temperature	: 0 to 50 °C
Temperature Drift	: 0.015 % / °C maximum of Full Scale
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	: Protocol - MODBUS RTU./ MODBUS IP / BACNET IP Comport - RS232 or RS485(default). (Only for MODBUS RTU) LAN Port for MODBUS IP / BACNET IP (100Mbps, Half Duplex)
Power Supply	: 85 Vac to 265 Vac, 50 Hz, Universal
Construction	: Aluminum Die cast housing with IP65 Protection (Wall Mounting)
Dimensions	: 220 mm (L) x 120 mm (H) x 90 mm (D)
Ingress Protection	: IP65

Note

Standard flanges used for Electromagnetic flow meters :
 a. ANSI B 16.5, class150 upto DN350
 b. From DN400 to DN 800 : IS 1538
 c. From DN900 & DN1000 : AWWA class B

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: DN50 - HR - SS316L - ANSI150 - CS - CS - RMT - BTU100L - WM - RS4 - 1L - U

DN 50	Flow Meter Size	ANSI150	Flang / End Connection Standards	BTU100L	BTU Calculator
	DN10 : 3/8" DN200 : 8" DN15 : 1/2" DN250 : 10" DN20 : 3/4" DN300 : 12" DN25 : 1" DN350 : 14" DN32 : 1 1/4" DN400 : 16" DN40 : 1 1/2" DN450 : 18" DN50 : 2" DN500 : 20" DN65 : 2 1/2" DN600 : 24" DN80 : 3" DN700 : 28" DN100 : 4" DN800 : 32" DN125 : 5" DN900 : 36" DN150 : 6" DN1000 : 40"		ANSI150 : ANSI150 IS1538 : IS1538 AWWA Class B : AWWA Any Other : ZZ		BTU100L : BTU100L
		CS	Flange / End Connection Material	WM	Mounting
			Carbon Steel : CS Stainless Steel : SS304 SS304 Any Other : ZZ		Wall : WM
				RS4	Communication Facility
					RS232 : RS2 RS485 : RS4 Modbus IP : Modbus IP Bacnet IP : Bacnet IP Any Other : ZZ
HR	Liner Material	CS	Body Material	1L	Data Logging
	PTFE : PTFE Hard Rubber : HR Neoprene : NE Any Other : ZZ		Carbon Steel : CS Stainless Steel : SS304 SS304 Any Other : ZZ		Normal Logging : 1L Extended Logging : 2L
SS316L	Electrode Material	RMT	Transmitter Mounting	U	Power Supply
	SS316L : SS316L Any Other : ZZ		Integral : INT Remote : RMT		85-265Vac,50Hz : U 24Vdc : 3 Any Other : ZZ

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



EL 54, Electronic Zone,
 J-block, MIDC Bhosari,
 Pune 411026.
 Maharashtra, India.

Tel: 8484039026
 Mob: +91 77220 34924 / 74200 99054
 mktg@manasmicro.com
 www.manasmicro.com

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