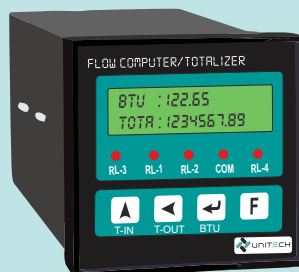


BTU / TR COMPUTER / TOTALIZER

96 x 96 - TOUCH LCD
TR/ BTU

96 x 96 - TR



96 x 96 - BTU



IP-65,55 Housing

- Com. Protocol- RS-485 / Ethernet TCP/IP / Wireless RF / GPRS-GSM
- Flow Monitoring and Data Logging SCADA Available

INTRODUCTION

We Are Offering Air Conditioning BTU Meter To The Clients. With The Prices Of Energy Rising Day By Day, Measurement Of Thermal Energy Flow Has Become Very Critical. Whether It Is Heat Transfer From Central Heating/Cooling Plants To Individual Users In Societies Or Shopping Malls Or Heat Transfer Flows In Industrial Processes, Measuring And Totalising Energy Flow Is Made Easy By Using Our BTU Meter. Cosmic UT-1210 / Energy Meter Will Display The Actual Energy Flowing Through The System, And Totalize The Heat Flow In Order To Obtain The Energy Quantity. The Values Can Easily Be Transmitted To A PC For Display And Analysis. The Data Obtained Can Be Used For Energy Flow Monitoring Or Billing As Required. We Provide A Software Which Logs The Data In A File On PC At Predefined Times. Designed For Thermic Fluid Or Hot Water Generator Heat Transfer Applications, It Uses Inputs For Flow From A Flow Meter, The Inlet And Outlet Temperatures From Temperature Sensors In The Respective Lines. Combined With The Thermodynamic Properties Of The Flowing Fluid, The Unit Not Only Computes Its Density But Also The Specific Heat At The Flowing Media Temperature.

FEATURE

- ★ Multi Parameter Auto Scroll Display Like Temp. In And Temp. Out And Total.
- ★ Accepts Up To Three Inputs— FLOW (mA), TEMPERATURES-1 (RTD), TEMPERATURES-2 (RTD).
- ★ It Calculates And Displays Heat Flow In Kcal/Hr., And Net Heat Energy Consumed In Kcal.
- ★ Non-Volatile Memory To Retain Totalizer Flow, No Need Of Battery To Change.
- ★ Isolated 0/4-20 mA DC Re-Transmission Output Proportional To Standard Flow Rate.
- ★ Field Operated User Friendly Menu For Device Configurations & Calibration.
- ★ Optional GSM Mobile Connectivity For Wireless Remote Reading Purpose (SMS).
- ★ Fully Password Protection For Tamper Free Operation.
- ★ Isolated Highly Communicative Serial Interface Facility (RS-232/485).
- ★ 24 V DC Loop Power Supply For Flow.
- ★ 8/10 Digit Flow Totalizer With Password Protected Resetting.
- ★ Flow Metering & Data Logging Computer Software Available.
- ★ Weather Proof Or Flame Proof Housing.

The Various Options Include Clamp On Flow Sensors, Vortex Flow Meter, Electromagnetic Flow Meter, Orifice Flow Meter, Or A Turbine Flow Meter.

BTU / TR COMPUTER / TOTALIZER

TECHNICAL SPECIFICATION

INPUT	Input Type	Flow :	4-20 mA Dc / 0-10 V DC
		Temperatures 1-In :	4-20mA DC / 0 - 10 V DC Or Other Linear Type
		Temperatures 2-Out :	Td Pt. - 100 3 Wire & 4-20 mA
	Transmitter Power Supply	24 V DC @ 30 mA Max, Isolated From I/P & O/P	
	Input Mode	Linear Or Square Root	
	Range Limits	As Per Input Range Table	
	Accuracy	+/- 0.1 % Of Span For Linear & RTD, +/-0.25 % For T/C	
	Input Impedance	>330 K For Voltage ,mV, And T/C, 100 R For Current	
INDICATION	Indication	Touch LCD Type :	3.5 Inch Touch Screen 5 Digit Flow Rate & 10 Digit Totalizer.
		LCD Type :	5 Digit Flow Rate & 10 Digit Flow Totalizer
	Status Indication	LEDs For Relay Status & Communication	
MASS CALCULATION	Alarm Modes	Very Low / Low / High / Very High	
	MASS CALCULATION FOR GAS- AIR	Gas : AGA-9/11, & For Orifice Or Venture Flow Meter	
OUTPUT	Display	Display :- Temperature , Flow and Pressure & Sm3 and Kg/Hr. option	
	Relay Output	NO - C - NC Contacts , 5A@240 V AC Resistive	
	Transmitter Power	24 V DC @ 20 mA , 12 V DC @ 20 mA	
COMMUNICATION	Retransmission Current & Voltage Outputs	0~20/ 4~20 mA, 0~5 V , 0~10 V , 1~5V DC, Fully 3 Port Isolated	
	Communication Protocol & Method	Modbus RTU RS- 485/RS- 232 or Ethernet Communication	
	Programmable Parameter & Max No.	Baud Rate, Parity , Node Address , Stop Bit & 0-256 Unit	
PROGRAMMABLE PARAMETERS	Wireless Communication	GSM/GPRS Base Mobile(sms) Communication	
	Set point / Hysteresis / High Scale / Low Scale	Full Range As Per Input Selection.	
	Relay Logic	F.S. High & Low Alarm, Dead Band Alarm	
	Display Resolution	-1999 to 9999 Fully Configurable For Linear Input	
OTHER	Programming Of Parameters	Through 4 Tactile Keys	
	Dimensions & Mounting	As Per Box Selection & Wall/Structure 2/2 Holes	
	(A) Supply Voltage (B) Power Consumption	(A) 110/230 AC/24 V DC, 50/60 Hz (B) 4 Watts Maximum	
	Operating Ambient Temperature And Humidity	0~50 °C , and Humidity : Below 90%, Non Condensing	

ORDERING INFORMATION :

UT-1210	1	2	3	4	5
Ext. Housing	Input Type	Output	Power	Comm.	
Panel Mounting R	16 x 2 line LCD Flow : 4-20 mA DC Temp. IN : RTD-PT-100 Temp. OUT- RTD PT-100	None N	230V AC 1	None N	
Field Mounting (Wall) W	1	4-20mA C	110V AC 2	RS485 4	
Flame proof housing F	2	0-10/5V V	24V DC 4	Ethernet 2	
	Touch LCD-Hi Accuracy Flow : 4-20 mA Temp. IN : 4-20 mA Temp. OUT- 4-20 mA	Special T		GSM 1	