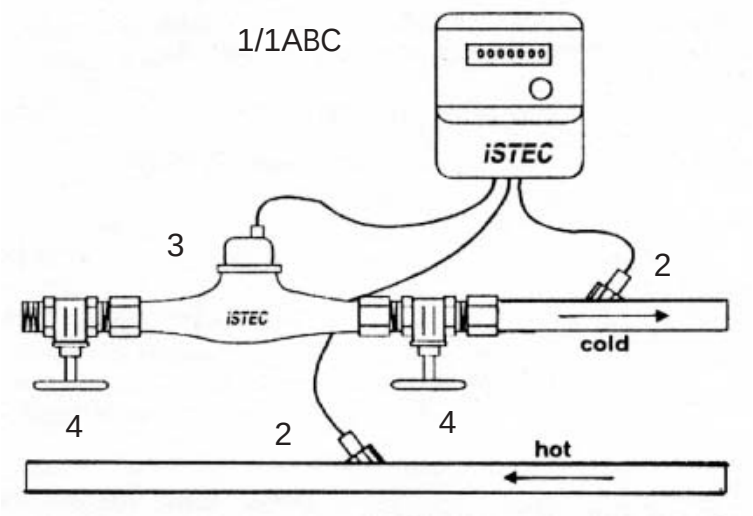
BTU METERS

4000 Series



Applications

- Heating Systems
- Cooling systems
- District Heating/Cooling systems
- Cogeneration Systems
- Solar Systems
- Efficiency Measuring/Verification
- Geothermal systems
- Heat Reclaimers

Product Overview

ISTEC's BTU Meters measure the total energy used or transferred in a liquid system. BTU's are calculated by multiplying the temperature difference (ΔT) between the supply and return lines by the flow rate (gpm) through these lines.

BTU = ΔT x Flow

The illustration above shows a typical system:

1. Calculating Unit with Power Supply
2. Wells for supply & return
3. Flow Meter with Pulse
4. Stop Valves (recommended)

Technical Specifications

Minimum Temperature of Liquid	32°F
Maximum Temperature of Liquid	250°F
Minimum ΔT (temp. difference)	2°F
Maximum ΔT (temp. difference)	180°F
Ambient Temperature	14°F - 250°F
Temperature Sensor Resistance:	500Ω @ 32°F
	700Ω @ 212°F

How to Order

1) BTU Calculating Unit:
   10' Probe - # 4001
   15' Probe - # 4002
   30' Probe - # 4003

1A) Power Supply:
   24VAC Converter - # 4010
   Transformer (110 to 24 VAC) - #4018
   1 Year Battery - # 4011
   6 Year Battery - #4016

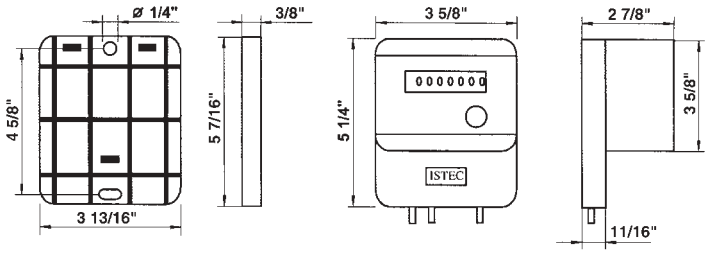
2) Temperature Sensor Wells – 3/8" NPT
   Short - # 4020 (for pipe sizes up to 1-1/2")
   Long - # 4022 (for pipe sizes 2" and up)

3) Flow Meter with Pulse (see pages 5 & 6)

Options

1B) Pulse Output Module - # 4072
1C) Pulse/4-20mA Output Module - # 4075

Dimensions



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