

## 5201 Series Smart BTU Meter

Size: 3/4"



### Description

The 5201 Series Smart BTU Meter calculates energy consumption by multiplying the flow volume by the difference in water temperature between the supply and return lines. The resultant BTU value is displayed on the meter's non-resettable 6 digit LCD index. The BTU integrating unit and one of the two required temperature wells are mounted on the flow meter – making for a compact and easy to install design. The unit also features a Chip Card slot. When the credit card sized Service Card is inserted, other data such as temperatures (°C), flow rates (liters/hr), totalized flow (m3), can be viewed on the LCD. Using a Data Chip Card the total BTU count, 13 months of time stamped data and the meter ID are transferred to the card. A single Data Chip Card can store information for up to 50 meters. The information from the card can then be downloaded to a computer.

### Applications

- Submetering heating or cooling systems
- Metering energy output from solar systems
- Ground Source Heat Pumps
- Energy Audits/efficiency studies

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### Operating Specifications / Tech Data

Max Temp.	200 °F (94 °C)
Max Op. Pressure	230 PSIG (16 bar)
Readout (LCD)	6 Digits, BTU x 1000
Q <sub>min</sub> (min. Flow)	0.2 GPM
Q <sub>n</sub> (Cont. Flow)	11 GPM
Q <sub>max</sub> (Max. Flow)	22 GPM
T-Sensor Wells	3/8" NPT
T-Sensor Cable L.	13' each
T-Sensor Type	Platinum RTD
Power	Li battery (6 years)
Connection Size	3/4" G (sold with 3/4" NPT Tailpieces)

### Dimensions

Pipe Size	Laying Length	Height	Width	Weight
3/4"	5 1/8" (131mm)	3 5/8"	3 7/8"	1.75 lbs.

### Installation Considerations

Meter is delivered with mating 3/4" Nuts, Gaskets and tailpieces. The meter comes with an integral 3/8" T-well. A second well needs to be installed in the hot water supply line.

The meter is typically installed in the return line or downstream of a zone valve. The other T-sensor is installed in the HW supply line.

Five pipe diameters of 3/4"D straight pipe before and after the meter are recommended for optimal accuracy.

The flow arrow on the body of the meter should be installed in the direction of the water flow.

Shutoff valves are recommended before and after the meter.

### Optional Accessories & Services

- Service Chip Card
- Data Chip Card (Monthly time stamped BTU)
- Chip Card Reader
- M-Bus communications