

5201 Smart BTU Meter – Typical Application

General:

A BTU meter calculates the amount of energy released or absorbed by the flowing liquid. It does this by measuring the flow through the line multiplying this by the temperature difference between the supply and return lines. BTU meters can only be used where the zone to be measured is isolated. Typically isolated zones will have dedicated pumps or zone valves.



Heating or cooling can be measured on radiators, baseboards, fan coils, or any water heating or cooling system independent from the type of fuel used (oil, gas, etc.).

Description

The 5201 has two permanently attached temperature probe cables with sensors. The temperature probes have a red or black tape at the end where the sensor is located. The red probe goes into the 3/8" well, which is inserted into the hot temperature pipe. The black probe goes into the 3/8" well on the cold side (typically on the meter in the return line). The length of the probes depends on the installation. Probes cannot be lengthened or shortened, nor can their cables as they are calibrated in pairs. The battery is Lithium and should last 6 years.

Installation

The 5201 can be installed vertically or horizontally.

The preferred installation position is in a horizontal line.

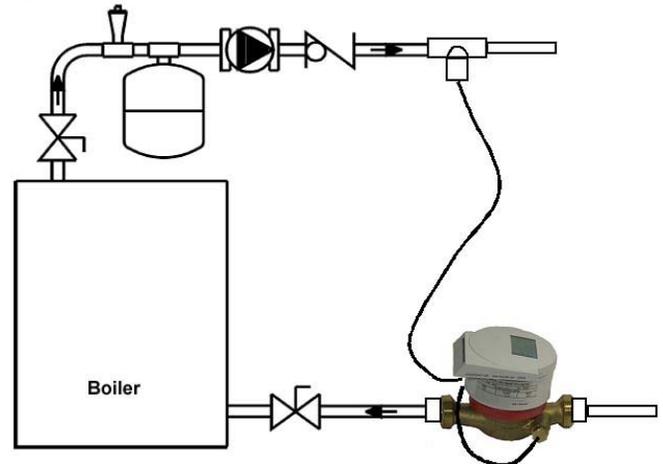
Five pipe diameters of straight unobstructed pipe before and after the meter are recommended for optimal accuracy. (Avoid locating the meter

directly before or after 90's, reduced port valves, or other fixtures that cause turbulence)

The flow arrow on the body of the meter should be aligned with the direction of the flow in the pipe.

Isolation valves before and after the meter will facilitate any required maintenance. If they are full port they can be installed directly before and after the meter, otherwise observe the straight pipe requirement above.

Typical Installation:



Application:

If using BTU meters for billing it is better to use multiple meters and base the billing on proportion, rather than trying to determine a cost per BTU.

Example: A duplex has two zones. One is owner occupied (A), one is tenant occupied (B). Use two BTU meters, one on each zone. If one meter (A) reads 100 MBTU and the other (B) 200 MBTU, the bill would be split 1/3 to owner (A), 2/3 to the tenant (B). This assumes the bill for the fuel has been properly determined (oil or gas submeters may be required as well.)

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