

Application Note: 19

MARKETS

- ✓ Energy
- General
- Irrigation
- Municipal
- Semiconductor

Multiple BTU Energy Monitoring

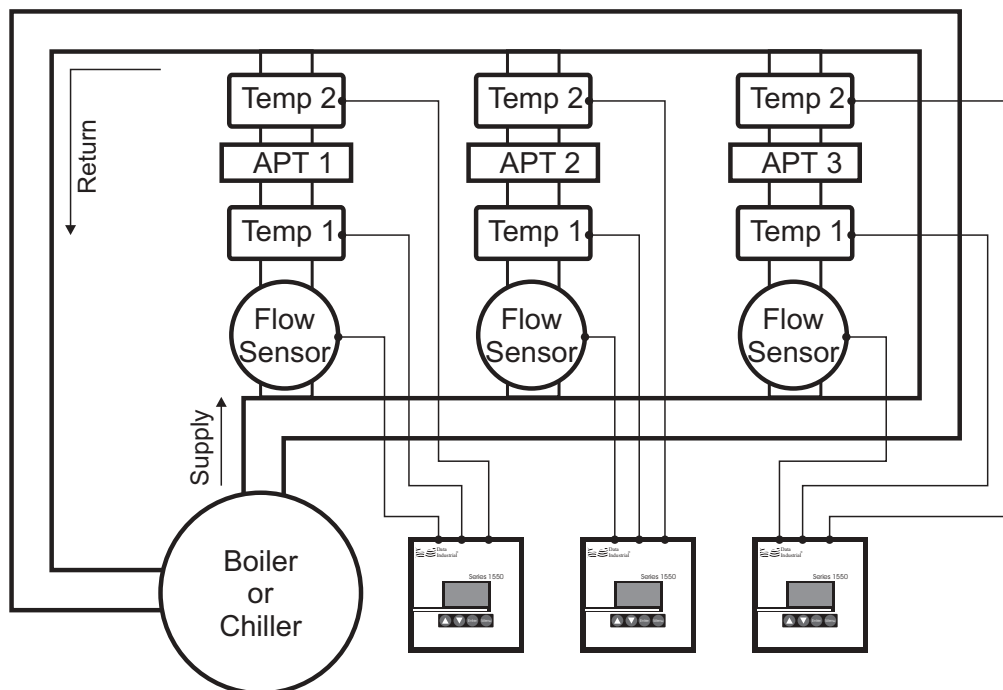
The Data Industrial Model 1550 Btu Meter provides an excellent means to monitor energy consumption in multiple facilities supplied by a central plant. Multiple BTU Meters can be mounted as illustrated below to monitor heating or cooling loops for multiple apartments in a residential building, multiple laboratories in a central facility, or multiple sections of large industrial processes.

With proper placement of flow and temperature sensors, either fluid heating or cooling loops can be monitored or evaluated. Energy consumption can be easily determined to assist owners in recovering costs from tenants when apartments are being serviced by a central boiler or chiller. Optional 4-20mA output signals can be "daisy-chained" or tied into multi-channel recorders, data loggers, or a central control console or panel. Output signals can also be interfaced to programmable controllers or computer systems for automation and energy management systems.

PRODUCTS

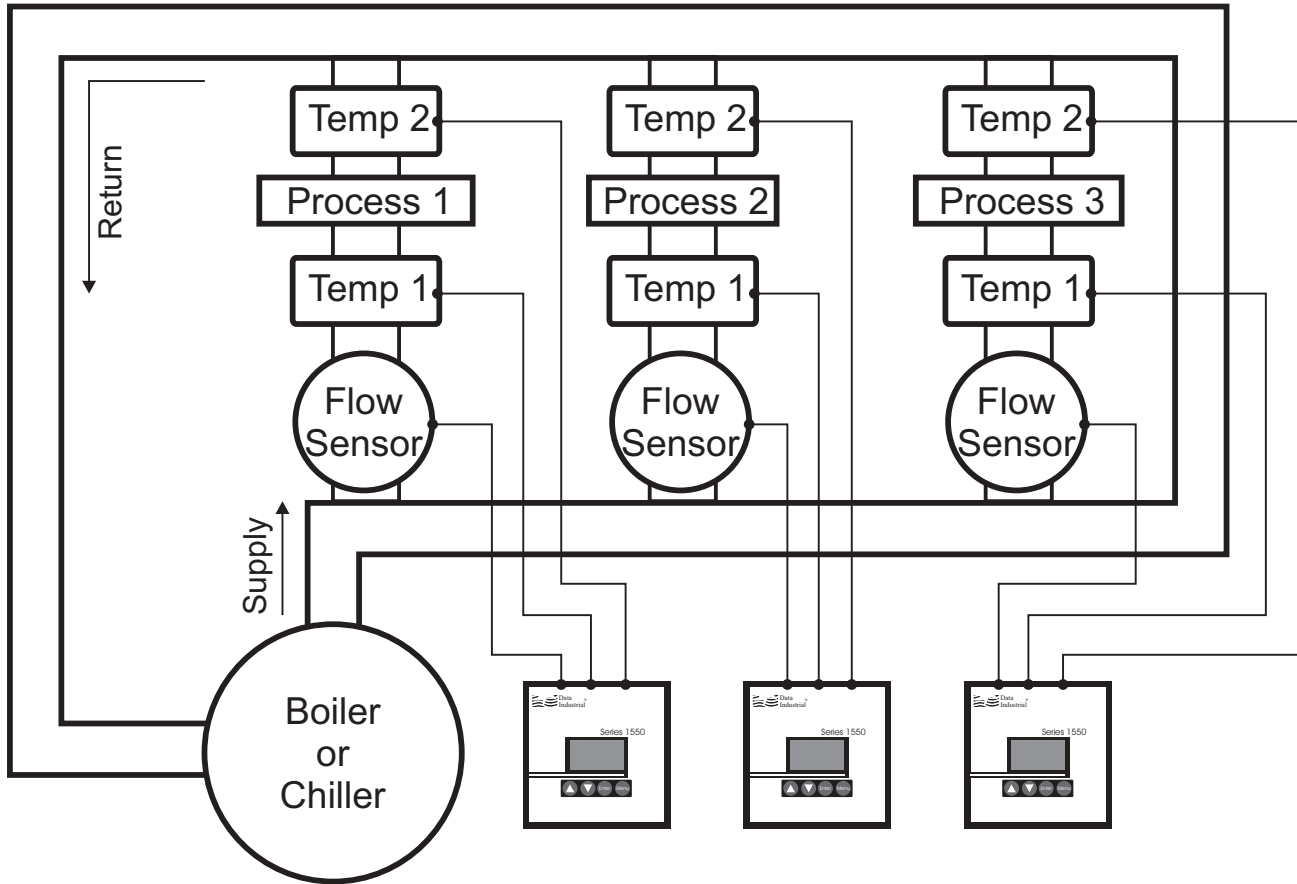
- 200 ✓
- 4000
- 310
- 320
- 330
- 340
- 340LW
- 340N2
- 600
- 800
- 1400
- 1500
- 1550 ✓
- 2100
- 2200
- 2300
- HTT
- SDI
- WSS

Multi-Facility Btu Monitoring



Similar applications exist for the Model 1550 Btu Meter in monitoring central supplies of hot water or cooling water where multiple buildings require interfacing. The Model 1550 Btu Meter can be installed in individual buildings to provide local monitoring, while the optional analog output signals can be transmitted, via independent modems or circuitry, to central facilities. Hospitals, laboratory and research facilities can use the Model 1550 Btu Meter to enhance and maximize facility-use efficiency and expansion capabilities based on facility load during both "peak" and "off-peak" loading.

Multi-Process Btu Monitoring



Facilities with multiple processing areas that require sharing of a central supply of heating or cooling water (or other process liquid) can also be enhanced by using the Model 1550 Btu Meters to assist in providing essential information on existing process requirements, helping management determine energy loads, future expansion capacity requirements, or to help locate potential problem areas and loading times. Central facilities can remotely monitor Btu/hr usage through 4-20mA output signals options or locally with LCD display on the front of the Model 1550 to determine total gallons and total Btu's consumed or produced.

Whether monitoring facilities, apartments, laboratories or production processes, when similar loads are being continually monitored and data compared, it becomes much easier to locate problems and isolate potential equipment failures or system inefficiencies. The Model 1550 Btu Meter can provide much of that crucial data to assist in the management of multiple processes or facilities.