

THERMAL ENERGY METERING

Optimize Building Efficiency and Reduce Costs With Non-Intrusive Ultrasonic Flow Measurement

Building Automation Solutions for Medical Facilities

Control Associates has accurate, reliable flow measurement solutions to support your efforts towards more energy efficient buildings and facilities.

Selecting the right solution has a big impact on your energy efficiency and bottom line. The Flexim FLUXUS® F532TE Thermal Energy Non-Intrusive Flow Meter is a smart answer.

Accurate Measurement = Accurate Billing

If you're experiencing inaccurate thermal energy measurements due to drift or are unable to meter low velocities, your energy billing will be off, and it is costing you money.

Flexim FLUXUS F532TE Meters are drift-free and perform in extremely high turndown ranges so you can get accurate measurements for low flow rates. Accurate measurements allow you to confirm accurate billing.

Non-Intrusive = No Process Interruptions

Maintenance-free, non-intrusive meters keep you up and running. Our clamp-on design eliminates the need to interrupt your process for calibration or turbine/wheel cleaning as with inline meters.

The FLUXUS F532TE has permanent coupling pads (no grease) requiring zero maintenance.



A More Accurate Thermal Energy Measurement Will Save You Money

A large medical complex experienced these great savings using FLUXUS F532TE Meters

The Cost of Meter Errors

DATA INPUTS

Chilled water energy cost = \$11.00 Ton/Day

Average temperature difference = 10°F

BTU FORMULA

$BTU/HR = GPM \text{ (flow)} \times ^\circ F \text{ (delta temp)} \times 500$

METER ERROR AT MEDICAL COMPLEX

Flow off by -148 GPM (-15%) 10" pipe

ENERGY LOSS CALCULATION

$148 \times 10 \times 500 = 740,000 \text{ BTU/Hr} = 61.66 \text{ Tons}$

MONTHLY COST SAVINGS PER METER

$61.66 \times \$11.00 = \$678/\text{Day} = \$21,000$

Typical Cost of ERROR for ONE Metering Point
\$21,000/Month | \$252,000/Year