

MeasurIT Technologies Ltd. are pleased to introduce you to our February technical product update.

Yours sincerely,  
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## Precision Ultrasonic Flow & Thermal Energy Meters FLUXUS BTU

### Energy Optimization

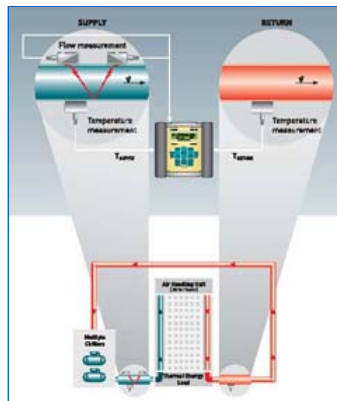
In times of rising energy prices and environmental regulations, controlling, balancing and monitoring the flow of thermal energy is of utmost importance for cost conscious users.

The **Thermal Energy Meter FLUXUS BTU** is up to the task.

### Turn-key Solution

With temperature measurements made at the inlet and at the outlet of a system as well as flow measurement at the outlet, **FLUXUS BTU** calculates the energy flow within that system. All this is done with temperature and flow measurement devices mounted on the outside of a pipe - see here [how the ultrasonic sensors work](#).

**FLUXUS BTU** will display the actual energy flow through the system, and if needed, totalize the heat flow in order to obtain the energy quantity. The values can easily be transmitted to a PC for display and analysis. The data obtained can be used for energy flow balancing or it can be transmitted to a process control system.



### Traceable Certified Accuracy

Thermal energy meters are frequently used for billing and revenue allocation. Recognizing the need for traceable certified accuracy, we deliver all meters with a multi-point wet flow calibration and certificate. The installed accuracy of the meters is typically better than 1%.

### Temperature Accuracy

In applications with small temperature differentials such as chilled water applications, the temperature measurement accuracy is critically important. **FLUXUS BTU** temperature measurement system provides a differential measurement uncertainty of better than 0.015°C/0.03°F – and can be supplied with a traceable laboratory calibration certificate.

### Features and Advantages of Ultrasonic Non-Intrusive Measurement

- Certified traceable accuracy of both flow and temp. measurements,
- Extremely high turndown range, ability to measure low flow rates,

## Organic Biomass Fermentation & Recovery

The entire process of **biomass fermentation** involves gas creation, cleansing, storage, and ultimately the use of biogas as a fuel source for heating or generating electricity.

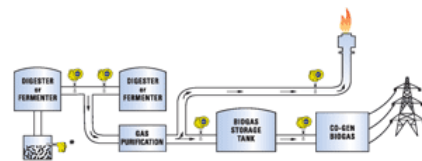
Measuring **biogas flow** at several points in the system provides operators with critical information for optimal gas production, control, safety and reporting.

Biogas applications present **several challenges** in selecting the proper flow meter:

- temperature compensation for correct readings in varying temperatures,
- calibration for mixed gas compositions of CH<sub>4</sub> + CO<sub>2</sub> + trace gases,
- wet, dirty gas with corrosive H<sub>2</sub>S content,
- potentially flammable or explosive environment.

[Read more about this application..](#)

ST51 Flow Meters - for methane-rich gas compositions  
ST98 Flow Meters - for wide range of gases, also biogas



## TESTO Measurement Instruments

TESTO is a world leader in the development and manufacture of high quality measurement instruments, with over 50 years of experience.

TESTO measurement instruments **for the Industry** include:

- Temp, Pressure, Humidity, RPM, Sound Measurements,
- Thermal Imaging,
- Data Loggers / Wireless Monitoring,
- Emission Analysis,
- Multi-Function Instruments and more.

**Calibration services available.**

[read technical details: TESTO](#)



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