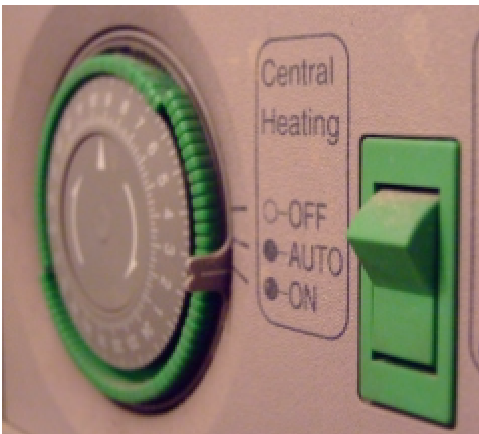


Contactless flow measurement for Potterton. Portable clamp-on flowmeters were required to be used for on-site measurements as part of customer support, commissioning and maintenance activities.

Specifications

- **Installation Type:** Portable
- **Flow Channels:** One
- **Inputs:** Temperature
- **Medium:** Water
- **Pipe Materials:** Steel, Copper
- **Pipe Diameter:** Various
- **Flow Velocities:** Various
- **Temperature:** 18 to 130 °C

Application



Katronic's portable flowmeters are used for customer support, commissioning and maintenance activities for boilers.

Instrument Solution



Portable ultrasonic clamp-on flowmeter KATflow 230 as example of a suitable instrument.

Measurement Task

Potterton, one of Britain's oldest and most reputable boiler companies, was looking for a portable flowmeter to aid with the evaluation of site related problems. In order to assist customers with site related issues and boiler replacement programs, Potterton identified the need for a non-invasive and non-intrusive method to accurately measure flow on sites where no alternative measurement facilities could be provided.

As Gary Stoddart - Technical Services Manager for Potterton Commercial - explains, the flowmeter was required "to accurately record and monitor the flow through various points on the heating pipe work associated with our boilers". Without water flow data, it is very difficult to accurately manage the boiler's output and efficiency.

Solution

The solution came in form of a portable ultrasonic clamp-on flowmeter similar to the KATflow 230. This instrument is an ideal tool to monitor boiler applications, as it can not only measure flow. It is also capable of monitoring the fluid's temperature and can determine the wall thickness of pipes (if equipped with suitable sensors).

By using the portable flowmeter, it was possible to ensure correct flow rates on-site and thus to assist Potterton customers with the distribution of the flow through multiple boiler installations. Potterton engineers pointed out that the flowmeter is quick and easy to install, does not require purpose made test points or draining systems and that the flow rates can be shown to the client immediately. The clamp-on mounting technique also enables the customer to see every stage of the measurement process and thus gain confidence in the boilers and engineering staff. Potterton's engineers welcomed Katronic's high quality standard and user friendliness of the meters, as the instruments are "very robust, easy to install and use".

Advantages

- **Simple, quick and cost effective installation and measurement**
- **No need to open pipes and switch off boilers for installation**
- **Accurate and reliable flow measurement data**
- **Easily portable within private and commercial buildings**
- **Capable of measuring flow and temperature of liquids**
- **Suitable for wide range of pipe diameters (10 mm to 3,000 mm), materials and temperatures (up to 130 °C or more)**

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