



MEASUREMENT TASK

When PA Energy, a London-based water and energy services company was asked to provide an energy metering package to Newham University Hospital in East London, it turned to Katronic to supply instrumentation for the system. The hospital which offers a range of local services including a 24 hour Emergency Department required a comprehensive proposal to review the metering and data collection in three blocks. According to Percy Albuquerque the Katronic flowmeter was chosen as the “most practical and technically competent for the hot water service application in the auxiliary block”.

SOLUTION

As part of the instrumentation package Katronic quoted two KATflow 100 clamp-on flowmeters with non-invasive temperature sensors in order to generate the needed flow and energy data for the submetering system. With the assistance of engineers from Katronic, PA Energy supplied and commissioned the energy meters with wireless data logging as well as the other existing meters. According to Mr Albuquerque “the Katronic devices will enable the site staff to monitor electrical and thermal energy consumption to evaluate utility consumption and identify opportunities for cost saving”.

The project was completed in three phases, initially to solving problems with the existing chilled water, heating and hot water services. Secondly, to install remote meter data collection and reporting for electricity and gas. The final stage was to commission new heat and water services meters including the Katronic flowmeters.

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
- Capable of measuring flow and temperature of fluids
- Suitable for a large range of pipe diameters and pipe materials
- Sensors to cover a wide temperature range (up to +250 °C) as standard

SPECIFICATIONS

Installation type	Fixed
Medium	Water
Pipe materials	Stainless steel
Pipe diameters	50 mm
Temperature	Up to +80 °C
Flow channels	1

APPLICATION



Clamp-on PT100 transducers fixed to pipe as used by PA Energy

INSTRUMENT SOLUTION



The KATflow 100 was supplied as an energy meter to the hospital