



GUILDHALL ART GALLERY (CITY OF LONDON) ENERGY METERING SOLUTION

BACKGROUND

As part of a responsible energy usage initiative, we were approached by the City of London to develop and implement an Energy Metering solution for their site wide heating and cooling circuits located at the Guildhall. These circuits provide crucial hot water and HVAC services to different sections of the Guildhall complex.

Nineteen separate circuits originating from boilers and chillers in plant rooms spread out across the site were identified as requiring accurate metering. As the application demanded high accuracy, we determined a combination of Contrec 212 Energy Calculators with MODBUS comms, Labom GA2610 Clamp-on temperature sensors and Siemens MAG3100 flowmeters would be the ideal equipment combination to achieve this.

SIEMENS

Labom

CHALLENGE

Significant pipework modifications were required to accommodate the new flowmeters being installed at several locations across site. There was concern as these works would affect services to areas such as the onsite police station, office block and crucially the climate control system in the art gallery.

To complicate things further some of the pipe cladding had been identified as containing Asbestos and two isolation valves would not provide positive isolation.

SOLUTION

Although technically more challenging, we decided that the only way we would reduce service downtime to an acceptable level we would have to fabricate the pipe spools off site.

Working in concert with our engineering partner Clarke Welding, Pipe Freezing and Asbestos removal specialists and our Sykes site representative we carried out all of the pipework modifications and flowmeter installations over a single weekend.





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RESULT

With the flowmeters installed, we were able to move onto the straightforward process of installing the temperature sensors and then wiring all the signals into the energy calculators. The metering systems for all 19 circuits were commissioned and are now providing accurate energy consumption data.

EQUIPMENT SUPPLIED

- Contrec 212 Energy Calculators
- Labom GA2610 temperature sensors
- Siemens MAG3100 flowmeters

