

Case Study

London Linen



apolloconnect
M2M web based monitoring & control

The Company

London Linen Supply - services the restaurant market in London with high quality table linen and kitchen workwear. Over the years the Company has built an impressive portfolio and includes nearly 40% of London's top restaurants as clients.

The Problem

Apollo Connect was asked to provide a control solution to bring London Linen's boiler plant and supporting equipment on line automatically each morning - previously someone had to be on site by 4.30am to do this manually - with the aim of delivering energy savings and significant control improvements.

The Solution

Apollo Connect supplied and installed a TB300 Telecontrol system including an ethernet port and a GSM modem. The system incorporates automatic main and bypass steam valves, cold water pump control and boiler feedwater pump control. It also included an in-flue oxygen and temperature sensor as well as a steam pressure sensor. An automated shutdown system operates at the end of the day, closing steam valves to preserve boiler pressure overnight.



Each morning the system ensures that the boilers are called on-line and are up to pressure by the time the laundry starts at 6.30am.

The new system controls the steam valve actuators, boiler low fire hold, feedwater and factory pumps.

Combined with combustion monitoring the systems ensures a reliable, safe, unattended start for the laundry's boiler plant.



The system also reports via SMS to the duty engineering staff any failure in the start-up process. This automated Telecontrol solution allows London Linen's Chief Engineer to see the current performance of his boilers in detail without leaving his desk - in fact he can even access this information from his home computer which can save him early morning visits to the plant if alarms are raised!



Environmental monitoring of flue gas emissions was included with displayed Flue Gas Oxygen, CO2, and Temperature. An Oxygen alarm was also incorporated into the system.