REMOTE DATA ACCESS AND CONTROL

The System 5000 is designed to allow remote access to all information brought back to the system. This enables a supervisory control and data acquisition (SCADA) system to be connected in order to monitor the current state of the system. In addition to this the connected system can be afforded control of features such as burner on / off, fuel changeover, setpoint, boiler feed water pump selection and more.

Remote communication is included as standard via Modbus (TCP/IP, RTU or ASCII). Other protocols such as PROFINET, PROFIBUS and BACnet are available on request.

A comprehensive system is included to aid the design of remote systems by providing all available data with current values and remote addresses in one easy to use screen. In addition to this a simulation mode can be enabled to simulate any data being passed off.

DELTA REMOTE MONITORING

Remotely monitor and control your boiler house from any location using the DunphyDelta remote monitoring system. Use your laptop, tablet or phone to access live information of the health of connected equipment and receive emails or SMS indication of any faults as they happen.

Connect multiple boilers and other suitable devices to one Delta system and feel safe in the knowledge that the data is held on cloud servers and data is encrypted on transmission.

The System 5000 is fully compatible with the DunphyDelta system and enables a wealth of information to be accessed from any location, 24/7.

BOILER SEQUENCING

The System 5000 is fully compatible with our boiler sequencing panel software. This enables a top level view of the boiler house whilst providing costs savings through increased fuel efficiencies by modulating only the burners that are required and at the optimal firing rate. More information can be found on the boiler sequencing panel by visiting our website, www.dunphy.co.uk.
The Dunphy System 5000 software is unique in its ability to be tailored to any given boiler configuration. Monitoring and control of steam, hot water and twin furnace boilers in addition to kiln fired applications is available as standard. Components such as water levels, hotwells and bypass dampers can be connected directly to the system.

**FULL DOCUMENT MANAGEMENT SUITE**

All of the documents in the boiler house can be added to the system to provide a centralised source for documentation. This allows for manuals, data sheets, drawings and service sheets to be stored and viewed at a later point.

**METERS**

Multiple fuel meters in addition to steam, water and electric can be displayed on screen providing flow rate and total values. Historical data for flow meters is automatically enabled. A detailed cost per unit system is provided to enable financial reporting of fuel consumption versus steam output.

**FEED WATER PUMPS**

Select which feed water pump to use and display current status information including tripped indication and feed water pressure.

**WASTE HEAT AND COMBINATION FIRING BOILER CONTROL**

Detailed CHP and bypass damper information and control is available as standard. Damper positions, setpoint, running status and temperatures can all be configured.

**PM5 / BG01 COMPLIANT**

The system can be integrated with a remote alarm panel for situations where an unmanned boiler house is desired. This enables all appropriate alarms to be indicated at a remote location with the facility to remotely shutdown the burner.

**BURNER CONTROL**

- Switch the burner on / off
- Select manual modulation at a fixed firing rate or automatic control via PID
- Fuel selection with a single touch
- Set a maximum modulation rate
- Set a fixed or timed setpoint. The timer allows multiple setpoints to be configured and changed on the hour, 24/7.
- Mute / reset faults and lockouts. An unlimited error history is also provided for fault diagnosis purposes.

**WATER LEVEL INDICATION AND CONTROL**

Indication of boiler level alarms and the ability to display the actual water level as a percentage and the TDS level in ppm or µS/cm. Manual adjustment of the boiler water level is available through the use of non-latching fill and drain buttons. An evaporation test feature can be incorporated and water levels can be tested via the touch screen.