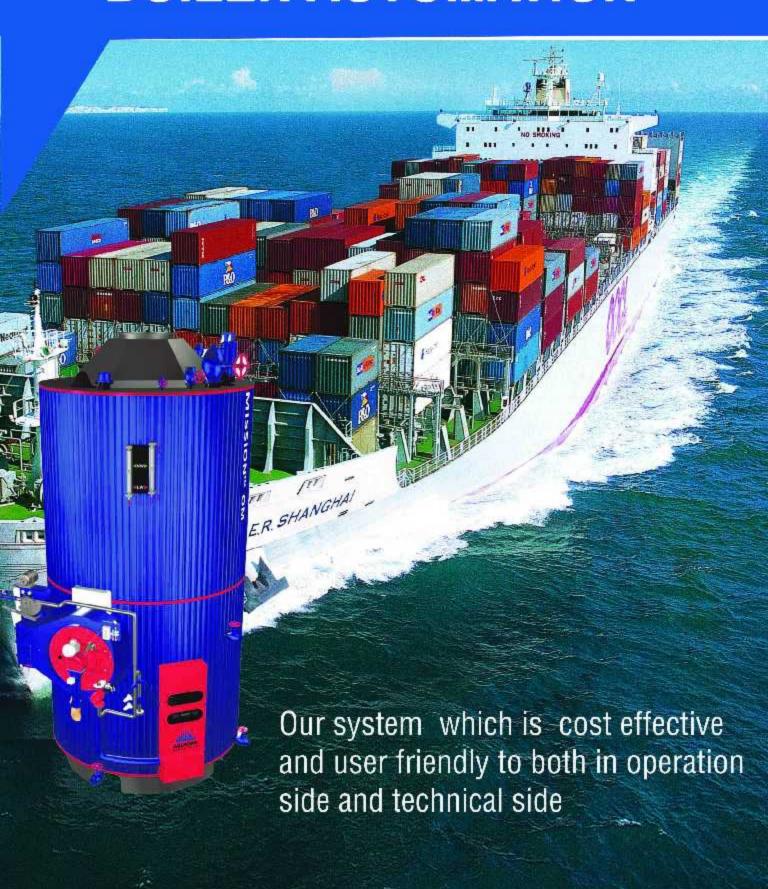


BOILER AUTOMATION



Why an upgrade with SMEC Boiler Control Systems

Over the years, SMEC has been attending the Complicated proprietary Boiler Control Systems from few boiler makers for various owners, mostly in emergency situations even upto where vessel expelled from berth etc because of boiler non- performance, as they couldn't fire the boilers even in emergency mode.

What is Required?

Similar to the existing system the retrofit kit mainly consists of three major parts.

For POWER PANEL - The existing power panel is used as is, and only a PLC module is mounted here to take care of the system control, I/O control, and communication with the other system parts. The status of the systems in the power panel also can be seen at any of the local stations or ECR.

For LOCAL CONTROL PANELS - The local control panel will have a Fully Graphical HMI panel for local interaction with the control system. Furthermore, it contains a new generation Automation controller PLC module to take care of the system, I/O control, and communication with the other system parts.

An Industrial PC remotely installed in ECR (Also CCR + bridge if required) provides facilities like fully remote boiler control and data acquisition to show trend curves and to ease fault tracing.

Features

1

Plug and play HMI

Integrated Feed Water Control System

HMI provides complete real time status of boiler

Network Redundancy for fail safe communication

Standard Schneider components available Globally

Tune control loops from HMI with embedded trend graphs

Economizer /Tanker /Inert gas Generation Mode selection

Tune fuel/air ratio from HMI for optimum combustion control

Network BMS and CCS to Power House Monitoring System

Integrated Burner Management System and Combustion Control System



24x7 Support www.smecautomation.com
Toll Free: 1800 200 1075

Control Enclosure

Floor Standing IP 65 Marine enclosure

Adaptable to vessels existing Control power Source

Duel 24 VDC loop power with status monitored by PLC

Optional Panel Air conditioner for Enhanced Reliability

Combustion Control Features

Boiler Master with bias

Full set of boiler control loops

High resolution drum level control

Loop power supply status monitoring

Fuel totalizers for current day and previous day

Network Interface to Power House Monitoring System

Full metered Fuel/Air Loops with cross limiting and O2 Trim

Transmitter Failure detection with loop shut down interlocks

HMI local display & Remote SCADA for all boiler process variables

Password protected tune screens for PID's, Fuel/Air ratio, Steam flow

Burner Management System Features

Independent PLC scan watch dog timer

Performance monitoring system for fuel optimization

HMI displays burner sequence status and safety circuit chain status

WHY SMEC

Ofcourse, you have very many options from around the globe

But if you are looking for

- Closer to cost price
- Life cycle support
- Acceptable Service rates
- Across a phone call away
- Global support

Then SMEC should be your favoured decision



Our Products

SMECled

SMECsolar

Solar Street Light

Customized PLC

AMF (Auto mains failure)

fire alarm system

Gas detection system

Crusher automation

DG synchronization

Boiler control panel

Trip amplifier

Pump control system

level /Temp /Flow monitoring system

Viscosity control system

AC refrigeration control system

Control pitch propulsion system

Incinerator control system

₩ww.smec.in

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