

SCC Inc.



www.scccombustion.com

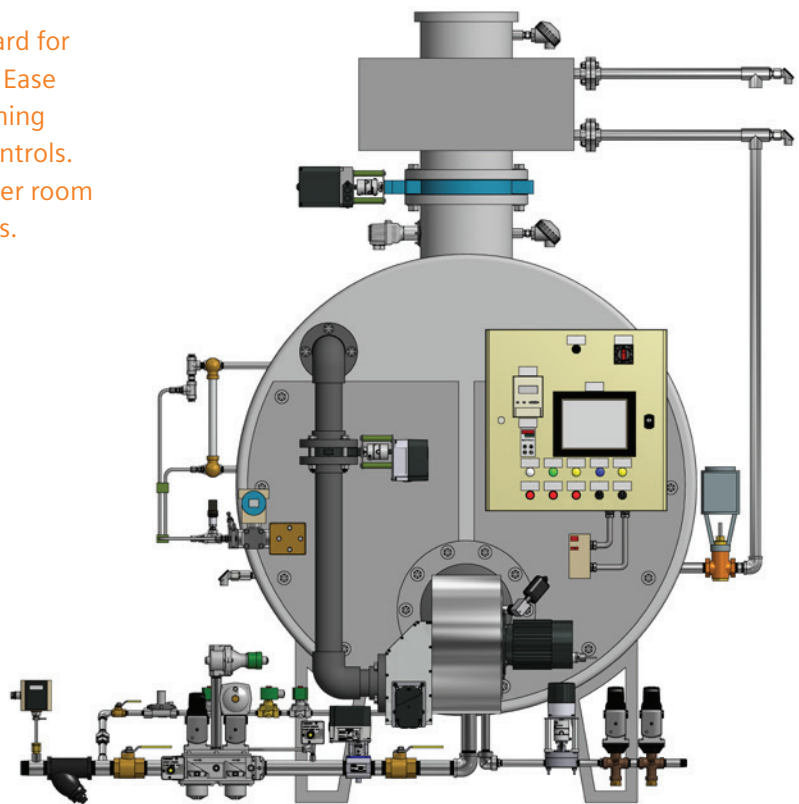
Total Boiler Solutions

Combustion Controls



*World-class system,
support and
performance*

TS... Series control solutions set a new standard for flexible, cost effective, Total Boiler Solutions. Ease of installation, configuration, and commissioning are incorporated into reliable, field proven controls. From single boiler touchscreens to entire boiler room solutions, count on SCC for world-class results.



Key Features and Benefits

TS... touchscreens, with field configurable graphics, interface with Siemens LMV... or RWF... controllers providing:

- Annunciation and monitoring
- Data collection and trending
- Email notifications and text messaging
- BMS communication
- Remote setpoint and firing rate via BMS
- Water level control and status
- Pump and valve control for hydronic boilers
- Many additional features ...

Innovation

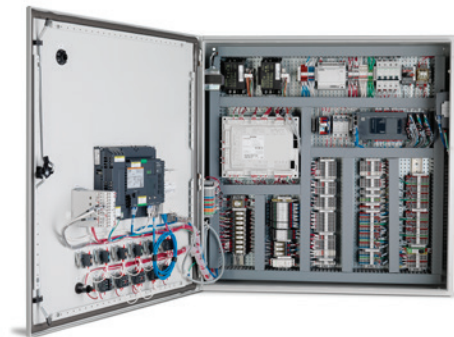
TS... Series products provide solutions, from a single boiler retrofit to fully integrated control systems for an entire boiler room.

- Precise, Low NOx control
- High turndown control
- Boiler and burner data collection and trending
- Increased boiler control and efficiency



Engineering

TS... Series products provide flexible solutions that are engineered to integrate together for maximum reliability, efficiency and safety. Intuitive HMI's provide user friendly operation and at-a-glance status.



Quality

TS... Series products are designed, manufactured, and tested to the highest standards that provide a quality, seamless, reliable total boiler room solution. This investment in quality permits simple installation and commissioning, resulting in both project installation and operational cost savings.



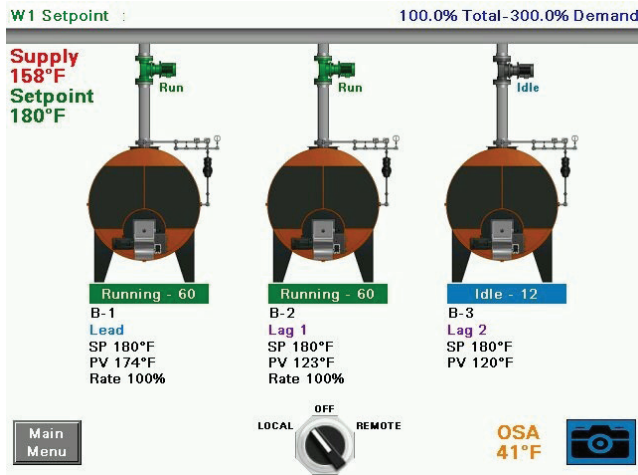
Safety

The Siemens LMV... Linkageless Burner Management System is a fully integrated control that is easy to install and commission. The LMV... delivers improved burner performance and efficiency, while ensuring safe operation.



TS-2000 Master Lead/Lag Panel

TS... Series Master Lead/Lag Panels provide accurate multiple boiler staging and firing rate control, while accurately maintaining the control set point to satisfy load demands. Field configurable for steam or hot water boiler applications, the master panel controls up to eight boilers equipped with TS... Series communication kits, touchscreens or combustion enclosures. Each Master Panel provides a central control system to monitor the operation of boiler room equipment, including deaerators, surge or condensate tanks, feedwater and transfer pumps. Master Panel touchscreens are available with 7.5", 10" or 12" screens.



Panel overview screen

TS-6000 Protocol Converter

TS... series Protocol Converters provide a flexible communications interface to the building management system (BMS) for streamlined data collection and monitoring. Supports LMV3, LMV5, RWF55, and all TS... Series Lead Lag Master Panels, Touchscreen Kits, Combustion Enclosures, and DA/Surge tank panels.

- Converts Modbus/RTU to BACnet/IP, BACnet MS/TP, Metasys N2, Modbus TCP/IP or LonWorks
- Allows simultaneous connection of up to 64 devices via serial connections
- Allows simultaneous connection up to 12 TS... Series devices via Ethernet Modbus

BMS

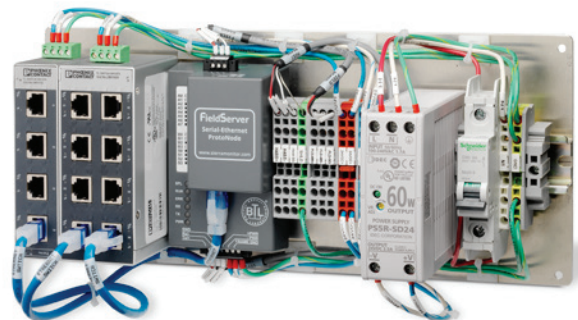


TS-2000 Master Lead/Lag Panel

OR



TS-6000 Protocol Converter



BMS

TS... Communication Kits

TS... Series communication kits connect any Siemens LMV linkageless control system to any TS... Series Master Lead/Lag Panel with or without a local touchscreen at each boiler.

TS... Series communication kits are suited for hydronic boilers, steam boilers, and other applications utilizing an LMV3 or LMV5 linkageless control system.

TS... Serial Communication Kits

TS... Series serial communication kits connect any LMV linkageless control to any TS... Series Master Lead/Lag Panel without a local touchscreen at each of up to eight boilers.

- TS-3X-KT for each LMV3 system
- TS-3M-KT includes the OCI412.10 Modbus module for each LMV3 system
- TS-5X-KT for each LMV5 system

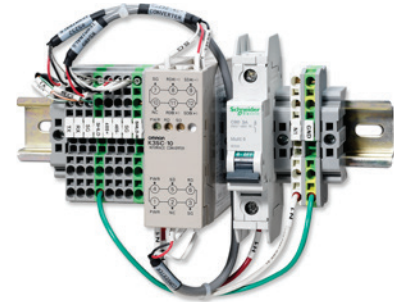
TS-3X-KT Serial Kit



TS-3M-KT Serial Kit



TS-5X-KT Serial Kit



10" TS Communication Plate Kit



6" TS Communication Enclosure Kit

Touchscreen Communication Kits

TS... series touchscreen kits provide a 6" or 10" touchscreen with either a plate kit to be mounted by others in a control panel or pre-mounted in an enclosure. Each kit provides boiler/burner data collection and trending for a hydronic or steam boiler.

A PLC first-out annunciator provides additional analog, digital, temperature, and/or draft control inputs and outputs.

Flexible communication interface options to the building management system (BMS) provide streamlined data collection, monitoring and control.

TS-CE... Combustion Enclosures

TS-CE... Combustion Enclosures are easy to install. They provide excellent control capability, configuration flexibility, and simple connectivity to a TS-2000 Master Lead/Lag panel. Combined with LMV3 or LMV5 controls, TS-CE combustion enclosures are suited for either hot water or steam boilers.

Options include:

- Touchscreen, 6" or 10"
- Expanded annunciation options
- Load and water level control
- BMS communication
- Integrated draft and economizer control
- Single or three-phase electrical supply
- Many additional options



LMV3 Combustion Enclosure

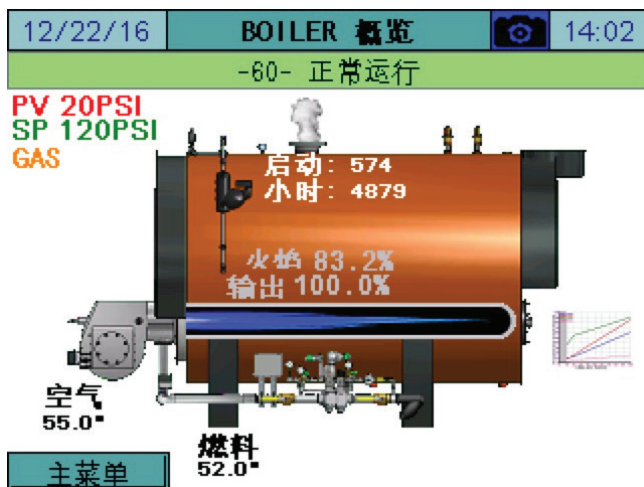


LMV5 Combustion Enclosure

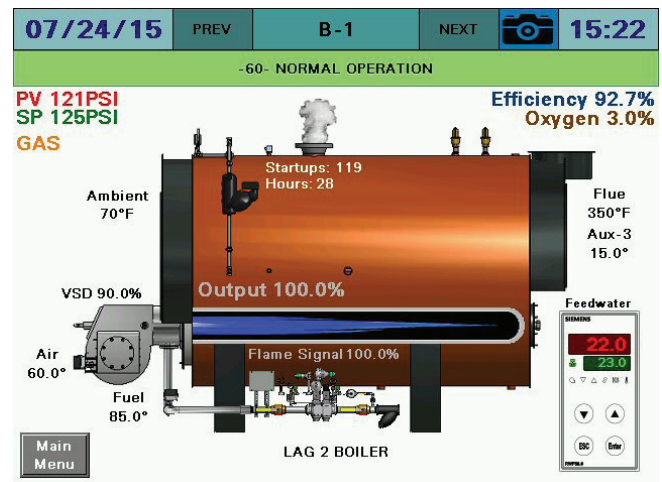
TS... Series touchscreen kits and Combustion Enclosures offer language and unit options:

- English or Spanish
- Metric or Imperial
- Chinese

Boiler Overview Screen – Chinese



Boiler Overview Screen



DA, Surge & Condensate Panels

TS-...Series DA, Surge & Condensate Panels manage lead/lag sequencing and operation of a:

- Deaerator (DA) tank
- Surge tank
- Condensate tank
- Combination DA/Surge tank
- Combination DA/Condensate tank
- Separate DA and Surge tanks

Each panel controls up to six pumps with variable frequency drive or motor starters.

TS-...Series control systems include preprogrammed 6" or 10" touchscreen, PLC, and expandable digital and analog inputs.

- Graphics for individual pump status and self-configuring overview screen
- RWF55.50A9 for DA level control, Backup DA level control, DA pressure control, or Surge tank level control



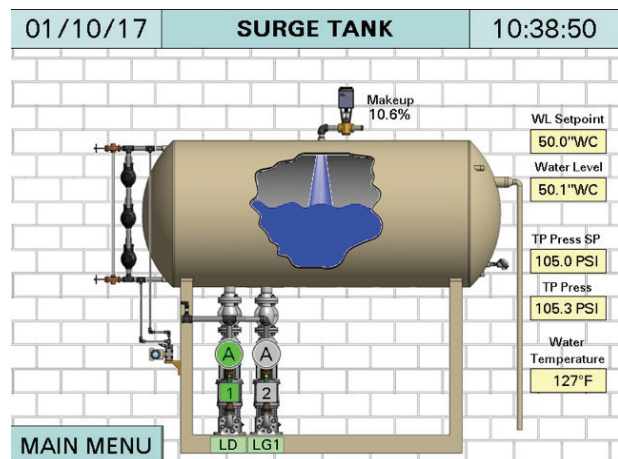
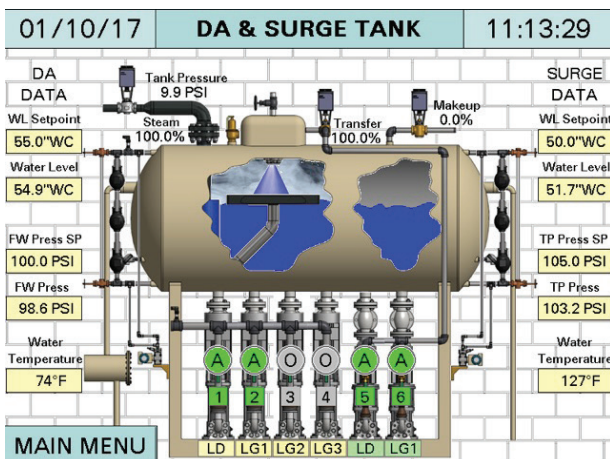
Combination DA/Surge Panel

OR

Deaerator Panel



Surge Panel



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Combustion
Controls

SIEMENS