

BCS-6000

Burner Control System

BCS6000-1
Edition 07-08



Hauck, a product brand
of the Elster Group



- User friendly, color touch screen operator interface
- Integral dryer draft control
- Precise control of stack temperature, material temperature and dryer draft
- Expanded limits annunciation and system status messages
- Simplified burner setup
- PLC based PID control with autotune capability
- Improved troubleshooting
- Dual fuel accommodation
- Reduced downtime
- Flame signal strength indicator
- Online help screens
- Additional add-on options available

www.hauckburner.com



The BCS-6000 is a full featured, user friendly burner control system that manages all functions of an asphalt or aggregate drying system from start-up through production cycling and shutdown. The integrated color touch screen provides an operator interface that includes help functions, alarm history, firing time accumulator and temperature trend screens. Available in table top or drop-in configurations, the control panel provides all the necessary functions to safely and efficiently operate single burner combustion systems.

The BCS-6000 utilizes an integrated PLC controller to manage all aspects of the burner operation. The PLC, in conjunction with an 10" diagonal touch screen operator interface, provides system messages, numerical data displays, indicators, switches and trend graphs. A pop-up keypad provides for numerical input.

The control system's processor has been upgraded for increased memory capability, more precise calculations, and PID capability. Four control loops provide for control of stack temperature, material temperature, draft and optional flue gas recirculation.

By incorporating these controls in the PLC, the BCS-6000 provides intelligent interaction between the burner management system and the temperature control and draft control functions.

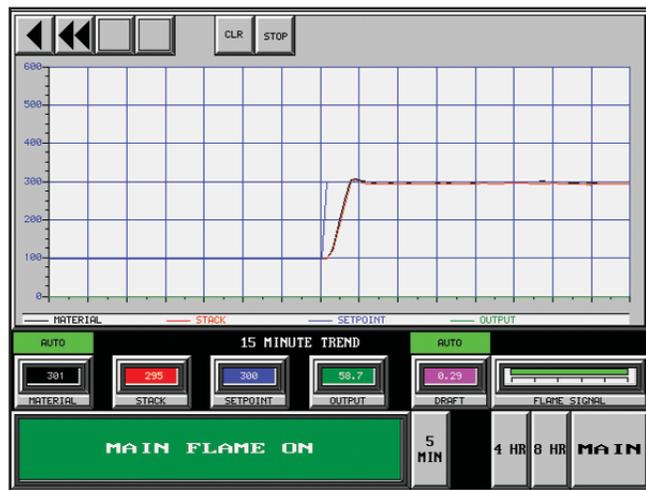
MESSAGE	DIAGNOSTICS
HIGH GAS PRESSURE	Monitor slot 3 input 8 and the high gas pressure switch (power on terminal 17).
PRIMARY AIR INTERLOCK FAULT	Monitor slot 3 input 2. For system which use a primary air blower for atomization, verify that the blower is running and check for power on terminal 15.
LOW PRIMARY AIR PRESSURE	Monitor slot 3 input 3. Verify that the primary air or compressed air pressure switch is made (power on terminal 15A).
LOW OIL or LP PRESSURE	Monitor slot 3 input 5. Verify that the manual shutoff valve is open and that the pressure switch is made (power on terminal 17A).
LOW OIL TEMPERATURE	Monitor slot 2 input 2. For heavy oil systems, verify that the oil heater is operating and the oil temperature switch is made (power on terminal 18).
HIGH STACK TEMPERATURE	Monitor slot 2 input 3. Check for power on terminals 26 and 25. Observe the display and OUT indicator of the stack temperature instrument. A full scale reading (842 F or 458 C) indicates an open TC or broken wire.

LOW OIL or LP PRESSURE

SCREEN 4 of 5

BACK
NEXT
EXIT

Online help screen from BCS-6000.



Temperature trend screen showing 15 minute analysis of setpoint, material and stack temperature and burner output from BCS-6000.

Available Options

- Flue Gas Recirculation
- Baghouse Outlet Temperature Indication
- Data Collection Interface to MS Excel®
- Fuel Flow Display and Totalization
- Modem for Online Service and Troubleshooting
- 4 - 20 mA Draft Control

For additional information on this product, visit our website at:

www.hauckburner.com

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