

URNER IGNITION & CONTROL SYS

Canalta Controls Company





The Combustex Burner Management System

BMS-2000 Series Heater Controllers

Powerful, Flexible B149.3 Compliant Burner Control



For more information or to order, contact us at

Phone: 403.342.4494 Fax: 403.346.7110

Email: sales@combustex.com Web: www.combustex.com

With the BMS-2000, You Have Exceptional Control

The BMS-2000 Series Burner Management System gives you the automated control to safely start, monitor and manage a single or dual burner gas-fired industrial heater.

- Calibrate, tune and configure more than 60 parameters and variables via the front keypad.
- Maintain system security through password protection.
- Access a wide selection of sequencing, monitoring and control information through easy page scrolling on the heated, back-lit display.
- Gain flexibility with remote and local start / shutdown / set point capabilities.
- Take control of shutdowns with first out annunciation and a direct readout of shutdown conditions.

With Control Comes Safety



The BMS-2000 Series Burner Management System is now available with an all new plug-in low power solenoid module for peak and hold applications.

Automatic Sequencing Features *\(\infty\)*



- Single or dual burner control (in conjunction or independent)
- Auto relight sequence set to up to three retry attempts (or deselected)
- Configurable pre- and post-purge times, auxiliary blower with confirmation and prepurge
- Configurable dual set point thermocouple operation, flame ionization detection and/or U.V. detection
- Ignition output signal can be configured as steady or pulsed
- Adjustable startup bypass timers
- Wide variety of configurable safety interlock devices
- Configurable remote start / stop
- Configuration settings are password-protected and stored in non-volatile memory
- Configurable auto-startup after power failure
- Configurable intermittent or standing pilot

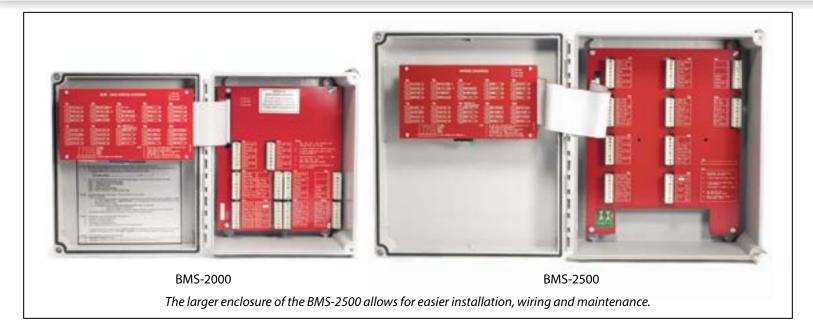
The BMS-2000 Series heater controllers are at their most powerful when the single or dual burner system incorporates Pilot Pro™ Ignition Assemblies. These igniters are designed and built around the features of the BMS-2000 and provide the operator with significant control both at the BMS-2000 keypad and in the control room.



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Shutdown Annunciation Features *=*



A first out annunciator is built in with direct readout of the shutdown conditions. Each shutdown condition is marked with its chronological incoming position and must be acknowledged and cleared before startup can be initiated.

Available Standard and Configurable Shutdown Conditions:

- Flame failure Burner #1
- Flame failure Burner #2
- Flame failure during auto-relight
- Low voltage input
- Bath high temperature
- Remote shutdown
- Low bath level
- Stack #1 high temperature
- Stack #2 high temperature
- Local manual shutdown

- Auxiliary flame failure
- Low fuel gas pressure Burner #1
- Low fuel gas pressure Burner #2
- High fuel gas pressure Burner #1
- High fuel gas pressure Burner #2
- Purge blower failure
- Thermocouple failure
- Proof of closure Burner #1
- Proof of closure Burner #2

Temperature Control Features *=*



The BMS controller is available as a single or dual temperature control version. The dual temperature control version can be configured so that the controls work completely independent of each other, or with one controller over-riding the other. Control can be primarily selected between ON/OFF with adjustable dead band or PID (Proportional with Integral and Derivative). Dead band and PID parameters are adjustable for tuning and are password-protected. The operator can select between auto / manual and remote / local set point. Remote temperature indication output and temperature set point input are configurable. Bath temperature set point and high limit are locally displayed and easily accessible.



Technical Specifications *=*

Enclosure Dimensions	10.5" H, 8.5" W, 6" D (2000) / 12.5" H, 10.75" W, 6.125" D (2500)
Enclosure Construction	Molded Fiberglass Polyester with Quick Release Latches
Operating Temperature	- 40°C to + 40°C (-40°F to +104°F)
Inputs	(12) Digital Solid State; (2) Analog 4-20mA; (5) Thermocouple Type K Underground Cold Junction Compensated
Outputs	(16) 12-30 VDC Digital Solid State Optical Isolated (1.5A each) (2) Analog 4-20mA 500 Ohm (max.)
Power Supply	12 to 30 VDC Clean Filtered
Current Draw	80 mA (min), 160 mA (typical), 300 mA (max) for Electronics + LCD Backlight + Display Heater. Current draw of solenoids and other devices driven by BMS will have to be added to above to calculate total. Total current draw not to exceed 3A.
Display	Low Temp. Heated LCD
Mounting	Wall Mount Bracket Standard; 2" Pipe Mount Optional
Communication	Digital, Analog and Modbus

Standards & Certifications *=*



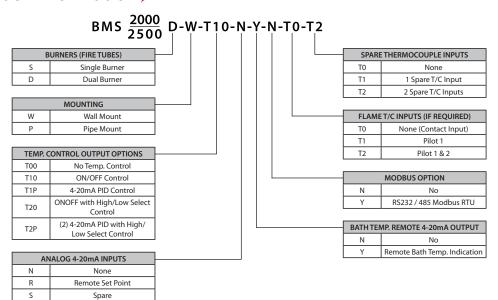
ANSI Z21.20 - 2007 CSA C22.2 No. 199 - B149.3 Compliant CSA 22.2 No. 213 - M1987 UL 1998 **UL 372** Class 1, Div. 2 Groups B, C and D Haz. Loc. Temp. Code T4 **NEMA Type 4x**



Intertek 4003497

Model Number Information *=*





Contact us today to find out how the BMS-2000 can safely meet all of your burner needs.

Call Us Toll Free: 1-855-226-2582



Both R & S

Phone: 403.342.4494

Web: www.combustex.com

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