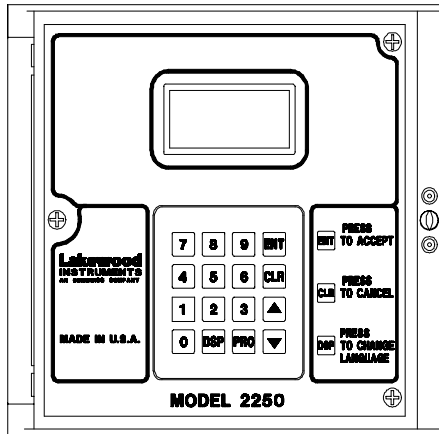


MODEL 2250 MICROPROCESSOR-BASED BOILER CONTROLLER



LONWORKS® is the latest in microprocessor technology that gives the user the highest level of application flexibility. A large graphic screen, multiple inputs and very easy setup, with easy field upgrade characterize this new technology.

FEATURES

- Steam flashing detector and compensation.
- Cycle sample or continuous conductivity control of blowdown.
- Use cycle sample for blowdown less than 1,000 lb./hr.
- Use continuous for blowdown greater than 1,000 lb./hr.
- Can feed chemical according to water meter percent of bleed or percent on-time.
- Interactive communications software datalog and control (-RS2L & -RTC Options).

- Four different languages.
- English Spanish (standard) English French (optional) English German (optional).

BENEFITS

- Accurate control of boiler conductivity.
- Control results in fuel savings by preventing excessive blowdown.
- Prevents carryover due to excessive conductivity.
- Two water/flow meter inputs provided.

SPECIFICATIONS

Inputs

Power	120/240 VAC 50/60 HZ
Sensor Input	2 and 4 electrode Conductivity
Temperature comp.	Automatic or disable
Flow switch	Dry contact
Water Meter Input	Two contacting head or open collector

Outputs

Relays	Four, 3 Amps @ 120 VAC
4-20 mA	Two, isolated w/-35L

Sensor (SR2)

Pressure	600 psi (41.4 bar)
Max. Temperature	486°F (252°C)
Body	Carbon Steel
Electrode	416 SS
Insulator	PEEK
Connection	¼ inch MNPT

Controller

Conductivity Range	0-8,000 (other ranges available)
Conductivity Accuracy	± 40 µS
Conductivity Resolution	10 µS
Deadband	Adjustable
Conductivity Setpoint	Cycle sample or continuous
Sample Time	Adjustable
Cycle Time	Adjustable
Keypad	Numeric
Display	Illuminated 128x64 pixel LCD
Ambient Temperature	32-158°F (0-70°C)
Enclosure Rating	ABS Plastic

LONWORKS is a registered trademark of Echelon Corporation.

ORDERING INFORMATION

2250 LONWORKS Technology-based cycle sample or continuous blowdown conductivity controller. Range is 0-8,000 μ S, has HIGH/LOW alarms, water meter inputs and chemical feed relays. Requires **SR2** or **SR4**, below, and **PL5** or **PL6** is recommended. (No power cord or outlets.)

CONTROLLER OPTIONS (optional, select one or more)

- 35L Two 4-20 mA output configurable for conductivity remote data acquisition.
- RS2L Communications node with LRWS program. Requires **-RTC**.
- RTC Schedule feed timer with 28-day programmable clock for selectable relays. Required for operation of **-RS2L**.

LANGUAGE OPTIONS (optional, choose one, English and Spanish Standard)

- EF English and French.
- EG English and German.

SENSOR OPTIONS (required, select one below)

- SR2 Boiler water sensor, $\frac{3}{4}$ inch NPT, and elbow. Rated to 486°F @ 600 psi (252°C @ 41.4 bar). This sensor cannot be used after a sample cooler.
- SR4 4-electrode sensor, $\frac{3}{4}$ inch NPT. Rated to 392°F @ 250 psi (200°C @ 17.2 bar).

PLUMBING (recommended, select one below)

- PL5 Plumbing for cycle/sample assembly $\frac{1}{2}$ inch (1/8 & 1/16 orifice plates and union).
- PL6 Plumbing for continuous sample assembly, $\frac{1}{2}$ inch (1/8 & 1/16 orifice plates & union).
- PL575 Plumbing for cycle/sample assembly $\frac{3}{4}$ inch (1/8 & 1/16 orifice plates and union).
- PL675 Plumbing for continuous sample assembly $\frac{3}{4}$ inch (1/8 & 1/16 orifice plates & union).
- GV $\frac{1}{2}$ inch forged globe valve for flow metering instead of an orifice plate and union.

NOTE: TWO GV OPTIONS ARE REQUIRED FOR CONTINUOUS BLOWDOWN AND ONE FOR CYCLE SAMPLE IF THE ORIFICE PLATE AND UNION ARE NOT USED.

MOUNTING OPTIONS (optional, select one only)

- PM Panel mount 6 $\frac{1}{4}$ inch square cutout.
- BM Bracket for pipe mounting.

SOFTWARE

LRWS Windows-based software program for computer to communicate with 2000 Series Controllers.

BLOWDOWN VALVE OPTIONS (optional, select one only)

- MBV1 Motorized $\frac{1}{2}$ inch blowdown valve with 1036 actuator; rated to 250 psi @ 400°F (17.2 bar @ 204°C).
- MBV2 Motorized $\frac{3}{4}$ inch blowdown valve with 1036 actuator; rated to 250 psi @ 400°F (17.2 bar @ 204°C).
- MBV3 High pressure motorized $\frac{1}{2}$ inch blowdown valve, with 1275 actuator; rated to 600 psi @ 550°F (41.4 bar @ 288°C).
- MBV4 High pressure motorized $\frac{3}{4}$ inch blowdown valve, with 1275 actuator; rated to 600 psi @ 550°F (41.4 bar @ 288°C).