



# Century Controls, Inc.

## CC-2000 BOILER FEEDWATER CONTROL

**BOILER FEEDWATER CONTROL** can now be provided on either On/Off or Modulating feedwater control for new projects as well as on existing boilers.

The **Boiler Feedwater System** will be available in the following configurations:

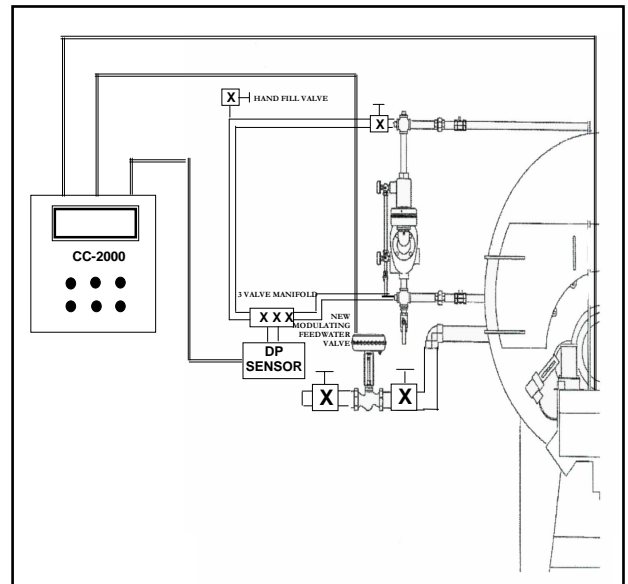
1. Stand alone CC-2000 Process Control
2. In combination with a CC-600 Master Control
3. In combination with a CC-700 Boiler Master O<sub>2</sub> Trim System Control

With patented algorithms and utilizing the software available for the CC-2000 Process Control we are able to provide **2-Element (feed forward)** design to all steam applications that require modulating feedwater control. The unique design also allows the use of any existing combinations of controls now in place on existing boilers for backup.

### Example:

A typical design used by most boiler manufacturers where they are controlling the water level in the boiler by a McDonnell Miller float, and sending a 135 ohm signal to a modulating feedwater valve electric motor. The three wires from the McDonnell Miller are split and routed thru Century's Auto/Manual arrangements of relays. The computer constantly analyzes the loading and level information. The float system is left in place for back-up. A quality differential pressure sensing system is added, piped in parallel. When the CC-2000 Control is turned on, it produces the proper 0-135 ohm output signal, blocking the existing signal. The control is analyzing the rate of change of the steam load **<First Element of Control>**, it also constantly calculates the actual water level in the

boiler from the new DP device **<Second Element (or final element) of Control>**.



When this system is applied in conjunction with a Century CC-600 Master Control it can receive a signal from the Master Control to anticipate a sudden load change helping prevent low water problems.

### Option:

Feed Pump control is available to alternate, Lead/Lag, and add boiler feed pumps as needed to handle all load conditions for the boiler system requirements. With rising electrical costs today, shutting off boiler feed pumps not required to operate boilers at low load conditions will provide a quick payback on the investment.

Call the Century Controls Representative in your area or Century's Headquarters if you should have any questions on these new developing products. There is a need for improvement everywhere.