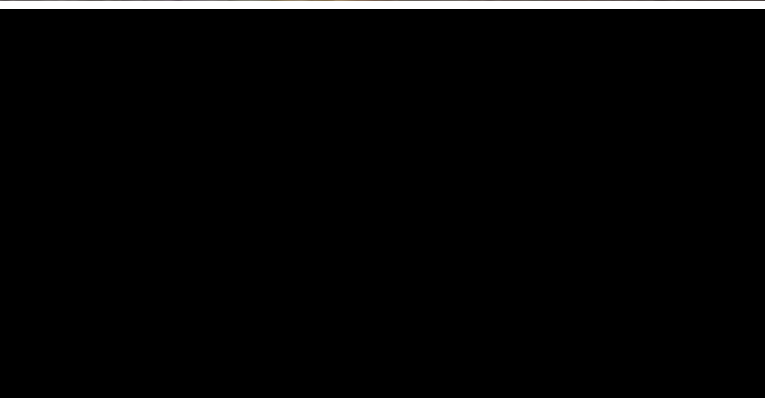**Honeywell**

Customized Control

7800 SERIES

Combines enhanced safety, comprehensive diagnostics, communication and networking capabilities into one compact and affordable microcomputer control.

With the latest addition of Valve Proving Systems, the Honeywell 7800 SERIES continues to be the innovative leader in reliable burner boiler controls.

SMART CHOICE

The 7800 SERIES offers you intelligent control any way you want it — with or without communications, expanded annunciator or a keyboard display module. It can do just about anything and everything you'd like it to do, and works on a wide range of applications including burners, boilers, furnaces, packaged rooftop units, ovens, kilns, water heaters and more.

You can customize your 7800 SERIES Burner Control with the following optional components:

- Valve Proving System (requires special relay module)
- Keyboard Display Module In Multiple Languages
- Communications Modbus™
- Configurable First-Out Expanded Annunciator

CUSTOMIZED TO YOUR OPERATION

Valve Proving System (VPS)
This self-checking system verifies the effective closure of automatic shut-off valves. It's a terrific diagnostic feature for fuel-fired equipment. When a failing valve is detected, the VPS will go into lockout status, retaining critical information, and will generate an alarm and prevent a burner start-up.

Keyboard Display Module
You can place an easy-to-use Keyboard Display Module on the 7800 or in any remote location where you want convenient access to information. The display has an option for programming a contact name and number to direct users to when a fault occurs. The optional keyboard display module is easy to install and you can add it at anytime.

Communications Capability
The S7810M Modbus™ Controlbus™ Module has two communications ports. The Controlbus port allows the communications to be on a bus that contains a 7800 SERIES burner control and an S7800 Keyboard Display Module and/or S7830 Expanded Annuniciator and/or an R7999 ControLinks™ Controller. A second communications port supports RS-485 communications using Modbus protocol.

First-Out Configurable Expanded Annunciator
The optional expanded annunciator can be added at anytime, and allows you to monitor 20 additional points to identify the specific limit or interlock causing a hold or lockout. Using the S7800, these input labels can be customized to the application. A series of 24 LEDs indicates operation and critical limit or interlock status at a glance.

MORE LEADING-EDGE FEATURES

Dynamic Self Checks
Self-diagnostic capabilities enhance safety with the maximum assurance of reliability. The 7800 continually tests itself and all related hardware, and if the safety hardware or software fails, a safety shutdown will occur and all critical loads will be de-energized. The airflow check switch feature adds even more reliability.

Trouble-Free Retrofit
The 7800 SERIES uses existing Honeywell flame detectors and sensors, making upgrades economical. In addition, plug-in adapter bases are available so that you can easily replace most Honeywell and competitive controls.

CRITICAL INFORMATION AT YOUR FINGERTIPS

Operational Information
At just the touch of a button, the text readout provides sequence status, hold status, lockout/alarm status and flame signal strength as well as total hours and cycles of operation.

Easy Troubleshooting
The Keyboard Display Module instantly identifies complete information for servicing, including interlock, limit and fuel circuit status. It also enables you to check terminal voltage status and read flame signal strength in dc volts, eliminating the need to use a meter. In addition, direct access the sub-base terminals without removing the control makes quick diagnosis easy.

Fault History
Through the keyboard display module, the 7800 SERIES identifies 127 different faults with easy-to-read messages and codes, helping diagnose and repair a costly lockout quickly and easily. A readout of the six most-recent faults is provided, and you can see the cause of a shutdown and at what point in the burner cycle a shutdown occurred. And thanks to the 7800's non-volatile memory, critical information isn't lost in the event of a power failure.