The Preferred Instruments 5004-M-85 is a microcomputer-controlled primary safety control burner management system. The diagnostic LCD display unit displays up to 46 messages which supplies the operator with the status of the control. The 5004-M-85 provides Standby, High Fire Purge, Low Fire Ignition, and Released to Modulate sequencing for oil and gas fuel burners.
The controller can be programmed by a dip switch that is located under the display. The dip switch is used for selecting the pre-purge timing, trial for ignition timing of the pilot, and Modbus device address. The plug-in connectors beside the controller allows wiring of the supply, fan, pilot & main valves, ignition transformer, valves, high purge, low purge, high fire proving interlock, low fire proving interlock, proof of valve closure, start limits, trip interlocks, 15 sec MTFI for oil, and remote reset. The flame sensor connector can accept flame rod, UV, UV self-checking, and IR sensors.