

# Series 1575

## Conductance Probe

## Low Water Cut-Offs & Pump Controllers

The **Series 1575** controller provides reliable control of burner circuits, pumps, motor starters and electric valves for low water protection and pump control in commercial and industrial steam boilers. The control uses conductance probes and solves many of the inherent limitations of float operated controls such as sensitivity to boiler operating pressure. The combination of higher pressure and wider differential capabilities, the Series 1575 expands the functionality of the M&M LWCO/Level Control product line.

### Typical Applications

- Primary low water fuel cut-off protection and pump control for commercial and industrial steam boilers
- Motorized valve controller, low water cut-off, high water cut-off and alarm actuator for boilers, vessels and tanks

### Features

- Set points and differentials remain constant throughout pressure range
- Auto reset
- Probe operation diagnostics
  - Sensitivity monitor
  - Sequence monitor
  - Wetted probe monitor
- Adjustable 60-second burner-off time delays
- Adjustable pump differentials by cutting probe to desired set points
- Redundant low-water and pump-off circuitry
- 1 Hp burner and pump relays
- Control unit can be mounted in any convenient location
- Test button standard
- Probe chamber with 3 probes and gauge glass tapings
- 4th probe can be added for high water control



**Control Unit**  
(For remote mounting)



**Probe Chamber**  
(With 3 probes standard)

For over 85 years, McDonnell & Miller has been a name you can trust and rely on for boiler safety controls.



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## Specifications

- NEMA 1 electrical enclosure
- NEMA4X chamber enclosure
- Maximum operating pressure 250 psi (17.3 kg/cm)
- Maximum ambient temperature 135° F (57° C)
- Maximum operating temperature 406° F (208° C) (at probes)

## Electrical Ratings

### Electrical Rating and Switch Ratings

Supply Voltage	Probe Voltage	(Amps) NO (NC) VAC	Locked Rotor (Amps) NO (NC) VAC	Pilot Duty (VA) NO (NC) VAC	Motor (HP) NO (NC) VAC
120 VAC 50/60Hz	5VAC	16 (5.8), 120	96 (34.8), 120	470 (290), 120	1 (1/4), 120
	Maximum	8 (2.9), 240	48 (17.4), 240	470 (290) 240	1 (1/4), 240

## Ordering Information

Part Number	Model	Description	Weight lbs. (kg)
171907	1575	Combination low water cut-off/pump controller	30 (13.6)
<b>Replacement Parts</b>			
310490	150E-CU	Control unit for 1575 or 150E or 157E	2.7 (1.2)
176319	PA-750-HP	High Pressure Probe	0.5 (.23)
179530	PS-1-SS	12" (305mm) Sensing Probe w/PTFE	0.5 (.23)



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