

# Introducing McDonnell & Miller's New and Improved Series PS-800 Probe Type Low Water Cut-Offs\* *For Steam and Hot Water Boilers*



The Series 800 controls provide continuous protection against low water conditions for residential, commercial and industrial applications. Increased probe sensitivity prevents nuisance shutdowns, and a new test feature diagnoses shorted probe problems at installation. The improved user-friendly diagnostic LEDs simplify installation and troubleshooting, ensuring proper operation and saving time.

### Typical Applications

Low water cut-off protection for steam and hot water boilers.

### **Features**

- Green LED power indicating light
- Red LED low water indicating light
- Shorted probe indication
- Delay on break (DOB) and delay on make (DOM) indication
- 7,000 ohms sensitivity
- Extended barrel, remote and short probe models available

### **Benefits**

- Faster installation time
- Easy system troubleshooting
- Fewer nuisance shutdowns

### Specifications

NEMA 1 enclosure, UL and CSA listed  
 Maximum ambient temperature 120°F (49°C)  
 Maximum steam pressure 15 psi (1 kg/cm<sup>2</sup>)  
 Maximum water pressure 160 psi (11.2 kg/cm<sup>2</sup>)  
 Maximum water temperature 250°F (121°C)



Series PS-800

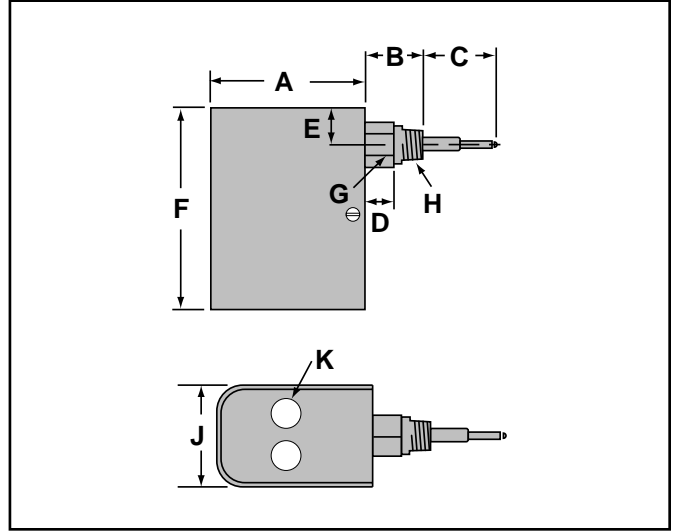
### **Electrical Ratings**

Model	Voltage	Motor Switch Rating (Amperes)		Pilot Duty
		Full Load	Locked Rotor	
24 VAC	24 VAC	—	—	50 VA at 24 VAC
120 VAC	120 VAC	7.5	43.2	125 VA at 120 or 240 VAC 50 or 60 Hz
	240 VAC	3.75	21.6	

\*Patent Pending

### Dimensions, in. (mm)

A	B	C	D	E	F	G	H NPT	J	K
4 <sup>1</sup> / <sub>4</sub> (108)	1 <sup>9</sup> / <sub>16</sub> (40)	2 <sup>1</sup> / <sub>8</sub> (54)	3 <sup>3</sup> / <sub>4</sub> (19)	1 <sup>13</sup> / <sub>16</sub> (21)	5 <sup>13</sup> / <sub>16</sub> (148)	1 <sup>3</sup> / <sub>8</sub> (35)	3 <sup>3</sup> / <sub>4</sub> (20)	2 <sup>7</sup> / <sub>8</sub> (73)	7 <sup>7</sup> / <sub>8</sub> (22)



### Ordering Information

Model Number	Part Number	Description	Weight lbs. (kg)
PS-801-120	153875	Low water cut-off 120V	2.7 (1.2)
PS-801-M-120	153880	PS-801-120 w/manual reset	2.7 (1.2)
PS-801-U-120	153876	PS-801-120 w/ext. barrel	2.7 (1.2)
PS-801-M-U-120	153925	PS-801-120 w/ext. barrel & manual reset	2.7 (1.2)
PS-802-24	153917	Low water cut-off 24V	2.7 (1.2)
PS-802-M-24	153913	PS-802-24 w/manual reset	2.7 (1.2)
PS-802-U-24	153916	PS-802-24 w/ext. barrel	2.7 (1.2)
PS-802-M-U-24	153924	PS-802-24 w/ext. barrel & manual reset	2.7 (1.2)
PS-802-RX2-24	153914	PS-802-24 w/remote sensor	2.7 (1.2)

### Ordering Information

Model Number	Part Number	Description	Weight lbs. (kg)
PS-851-120	153895	Low water cut-off 120V	2.7 (1.2)
PS-851-M-120	153896	PS-851-120 w/manual reset	2.7 (1.2)
PS-851-M-U-120	153884	PS-851-120 w/extended barrel & manual reset	2.7 (1.2)
PS-851-RX2-120	158421	PS-851-120 w/remote probe	2.7 (1.2)
PS-851-SP-120	153920	PS-851-120 w/short probe	2.7 (1.2)
PS-851-SP-M-120	153921	PS-851-120 w/short probe & manual reset	2.7 (1.2)
PS-852-24	153919	Low water cut-off 24V	2.7 (1.2)
PS-852-M-24	153918	PS-852-24 w/manual reset	2.7 (1.2)
PS-852-SP-24	153922	PS-852-24 w/short probe	2.7 (1.2)
PS-852-SP-M-24	153923	PS-852-24 w/short probe & manual reset	2.7 (1.2)

## McDonnell & Miller



3500 N. Spaulding Avenue  
Chicago, Illinois 60618  
tel: 773 267-1600  
fax: 773 267-0991  
www.mcdonnellmiller.com

©2001 ITT Industries, Inc.  
Printed in U.S.A. 2-01