



ITT

Boiler Controls

McDonnell & Miller

Low Water Cut-Offs – Electronic For Hot Water Boilers

New and Improved

Series PS-850 Low Water Cut-Offs



NOW WITH
SELF-CLEANING
PROBE!

- For residential, commercial and industrial applications
- Electronic operation

New Features:

- User-friendly diagnostics
 - Red low water and shorted probe LED
 - Green power and test LED
- Higher probe sensitivity: 7,000 ohms
- No lock out with loss of power if probe is in water
- No blow down of control required when mounted directly into boiler tappings
- Test button standard on all models
- Options available include
 - Manual reset
 - Extended barrel, remote and short probe models
 - 120 volt and 24 volt models (24 volt models meet ANSI specification Z21.13a)
- Power consumption 1.7 VA
- Provisions to add alarm
- Maximum ambient temperature 120°F (49°C)
- Maximum water pressure 160 psi (11.2 kg/cm²)
- Maximum water temperature 250°F (121°C)

Electrical Ratings

Model	Voltage	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	

Dimensions, in. (mm)

A	B		C				D	E	F	G	H		J	K
	All	U	Std	SP	RX2	U					All	RX		
4 $\frac{1}{4}$ (108)	1 $\frac{1}{16}$ (40)	3 $\frac{1}{16}$ (78)	2 $\frac{5}{8}$ (54)	1 $\frac{3}{8}$ (35)	2 $\frac{1}{8}$ (54)	1 $\frac{1}{16}$ (40)	$\frac{3}{4}$ (20)	1 $\frac{3}{16}$ (21)	5 $\frac{13}{16}$ (148)	1 $\frac{3}{8}$ (35)	$\frac{3}{4}$ (20)	$\frac{1}{2}$ (25)	2 $\frac{5}{8}$ (73)	$\frac{7}{8}$ (22)

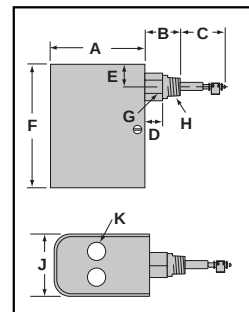


CAUTION

Do not use “manual reset” models with electric automatic water feeders.
Failure to follow this caution can cause flooding and property damage.



Series PS-850



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-U-120	153887	PS-851-120 w/extended barrel	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-M-RX2-120	153901	PS-851-120 w/remote probe & manual reset	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)