



11D18-1

# 1100 Series Well Immersion Temperature Controls

Hydronic (hot water) controls for use as high limit, reverse action or SPDT switching action.

## Features

- Extra capillary length for extended shank wells
- Special screw terminals with "ears" that securely hold solid and stranded wires
- Screwdriver-adjustable differential with direct-read indicator
- Knockouts on top and bottom and plenty of wiring room
- Hydraulic action element - fast acting
- May be mounted either horizontal or vertical

## Specifications

Dimensions ..... 5.38"H + 2.32" coil X 2.56"D  
 Finish ..... Grey  
 UL/CUL file number ..... E12615

## Contractor tip - Testing automatic temperature controls:

To verify a control is opening and closing properly, disconnect all power before testing. Testing must be performed with the sensing element at a temperature within the setting range of the control. For most hydronic controls with a range of 100 to 240°F, a pan of hot water is sufficient to reach the control range. Attach an ohmmeter or continuity tester across the Open on Rise contacts. Lower the temperature setting dial to the lowest setting. If the lowest setting is below the temperature of the sensing element minus the differential of the control, the contacts should be open. Raise the temperature dial slowly. When the setting is raised above the temperature of the sensor, the contacts should close.

### Types with bulbs directly interchangeable with honeywell - (3-9/16" x 3/8") No wells included

Range	Differential	Switch action	Motor rating (full load)		Valves and relays		Model number	Item number
			120 Vac	240 Vac	24 Vac	0.3-12 VDC		
100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Open on Rise	10.0A	6.0A	6.0A	1.0A	11D18-1 ①	11D18 001S1
100 to 240°F (38 to 116°C)	7 to 45°F (4 to 25°C)	SPDT	7.4A	3.7A	2.9A	—	11D31-1	11D31 001S1

### Types with tapered bulbs - (2-7/16" x 7/16") All types include 1/2" standard shank well, unless otherwise specified

Range	Differential	Switch action	Motor rating (full load)		Valves and relays		Model number	Item number
			120 Vac	240 Vac	24 Vac	0.3-12 VDC		
100 to 240°F (38 to 116°C)	7 to 45°F (4 to 25°C)	SPDT	7.4A	3.7A	2.9A	—	1131-102 ①	11 31 102S1
100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Open on Rise	10.0A	6.0A	6.0A	1.0A	11B18-101 ①	11B18 101S1

- ① Has U.L. approved adjustable dial stop, factory set at 150°F maximum.  
 See White-Rodgers General Information for full electrical ratings. 11D18-1, 11B18-101 are rated at HTV and 11D31-1, 1131-102 are rated at HH.

## Parts and accessories

Image	Description	Model number	Item number
	hydronic well adapter for 1100 series bulbs	F71-0924	F0071 092400S1
	Hydronic well heat transfer compound	F145-0163	F0145 016300S1
	Hydronic well adapter and heat transfer compound F71-0924 and F145-0163 packed together	F145-0650	F0145 065000S1