

O SERIES CUSTOM AND WIDE RANGE TEMPERATURE CONTROLS

O10 SERIES TEMPERATURE CONTROLS



Recognizing the need for flexibility in design of refrigeration equipment, these controls offer a wide selection for such products as self-contained refrigerators, freezers, coolers, walk-in units, and refrigeration display cases.

SPECIFICATIONS:

- Maximum adjustment accuracy with 7 revolution range adjustment screws
- NEMA 1 enclosure with non-conductive cover
- Front-located captive cover screw
- Large easy-to read scale plate
- Universal mounting and compact design
- Laser-welded bellows for extended life

The O60, which uses the industry's most advanced sensing element technology, has these additional features:

- Virtually unaffected by ambient temperature
- 10 times the setting sensitivity of most other wide range controls
- Gas-filled, non position-sensitive bulb
- Adjustable differential

ELECTRICAL RATING

RATING	O10/O11				O16/O60				O20		
	24V	120V	240V	241-600V	24V	120V	240V	241-600V	120V	208/240V	480V
FULL LOAD AMPS	-	24	24	-	-	17	17	-	20	12	7.5
LOCKED ROTOR AMPS	-	144	144	-	-	102	102	-	120	72	45
PILOT DUTY (VA)	144	720	720	125	144	720	720	125	125	125	125
RESISTIVE LOADS AMPS	-	-	-	-	-	24	24	-	-	-	-

EXTRA LOW

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS	REPLACES
RAN-O10-1000	-55 TO 0	3 to 20	SPST-OPENS LOW	72	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	--
RAN-O10-1419	-35 to 15	3 to 20	SPST-OPENS LOW	72	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	--
RAN-O10-1433	-35 to 15	3 to 20	SPST-OPENS LOW	72 W/REMOTE BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	HONEYWELL : L4808

LOW

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS
RAN-O10-1072	-15 to 40	3 to 20	SPST-OPENS LOW	AIR COIL	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O10-1408	-15 to 40	3 to 20	SPST-OPENS LOW	72 W/REMOTE BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25

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MEDIUM

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS
RAN-O10-1416	0 to 55	3 to 20	SPST-OPENS LOW	72	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O10-1418	0 to 55	3 to 20	SPST-OPENS LOW	AIR COIL	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O10-1409	0 to 55	3 to 20	SPST-OPENS LOW	72 W/REMOTE BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O10-1010	0 to 55	7 to 55	SPST-OPENS LOW	48	--
RAN-O10-1473	0 to 55	7 to 55	SPST-OPENS LOW	72 W/REMOTE BULB	--
RAN-O10-1490	0 to 55	2 FIXED	SPST-OPENS LOW	72 W/REMOTE BULB	--

HIGH

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS	REPLACES
RAN-O10-1802	25 to 75	3 to 20	SPST-OPENS LOW	AIR COIL	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	--
RAN-O10-1410	25 to 75	3 to 20	SPST-OPENS LOW	72 W/REMOTE BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	--
RAN-O10-1491	25 to 75	2 FIXED	SPST-OPENS LOW	72 W/REMOTE BULB	--	JOHNSON 5T13 5T1A19AAF-21 572

O16 SERIES TEMPERATURE CONTROLS

LOW

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS
RAN-O16-588	-15 TO 40	1.5 FIXED	SPDT	72	SOFT ICE CREAM MACHINE CONTROL

MEDIUM

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS
RAN-O16-601	22.5 TO 47.5	2.5 FIXED	SPDT	36 W/ 3/8 X 6 REMOTE BULB	BULK MILK COOLER CONTROL
RAN-O16-111	0 TO 55	3 TO 20	SPDT	72	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O16-104	0 TO 55	3 TO 20	SPDT	72 W / REMOTE BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25
RAN-O16-264	0 TO 55	MANUAL RESET	SPDT	96	MANUAL RESET
RAN-O16-263	0 TO 55	MANUAL RESET	SPDT	72 W / REMOTE BULB	MANUAL RESET

O20 SERIES TEMPERATURE CONTROLS

MEDIUM / HIGH

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS
RAN-O20-7041	0 TO 100	6 TO 20	DPST-OPENS LOW	96 W/ 3/8 X 6 CROSS AMBIENT BULB	JOHNSON A72AA-3 A72AA-7

O60 SERIES TEMPERATURE CONTROLS

EXTRA LOW- WIDE RANGE

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS	REPLACES
RAN-O60-100	.35 to 95	4 to 5	SPDT	96 W/ 3/8 X 6 CROSS AMBIENT BULB	10 TIMES THE SETTING SENSITIVITY OF OTHER WIDE RANGE CONTROLS	HONEYWELL-L6008C1008 T6031A1029 7675AA1508. JOHNSON:A19AAB-4 A19AAC-1 A19AAC-1 A19AAC-4 A70AQ-1.WHITE-RODGERS 1609-105 1639-6 1701-63 1609-103 1609-101
RAN-O60-101	.35 to 95	4 to 5	SPDT	AIR COIL	10 TIMES THE SETTING SENSITIVITY OF OTHER WIDE RANGE CONTROLS	HONEYWELL:T4054A1000 T4054B1008 T605441005.JOHNSON:A19BAC-2 A19BBC-2 WHITE-RODGERS:201-20 201-16 201-8.
RAN-O60-109	-20 TO 70	3.5 TC 35	SPST OPENS LOW	96 W/ 3/8 X 6 CROSS AMBIENT BULB	10 TIMES THE SETTING SENSITIVITY OF OTHER WIDE RANGE CONTROLS	PENN:A19ABA-40/40C HONEYWELL:T4031A-10073,T6031A-1029 WHITE-RODGERS:1609-101,102,105

HIGH

PART NO	RANGE (°F)	DIFFERENTIAL (°F)	SWITCH	CAPILLARY LENGTH (in)	COMMENTS	REPLACES
RAN-O60-200	95 TO 240	6 TO 50	SPDT	96 W/ 3/8 X 6 CROSS AMBIENT BULB	DIFFERENTIAL AT LOW END OF RANGE IS 6 TO 25	HONEYWELL:L4008C1037 L4008D1043 JOHNSON:A19AAC-9 A19ABC-4. WHITE-RODGERS:230-22.