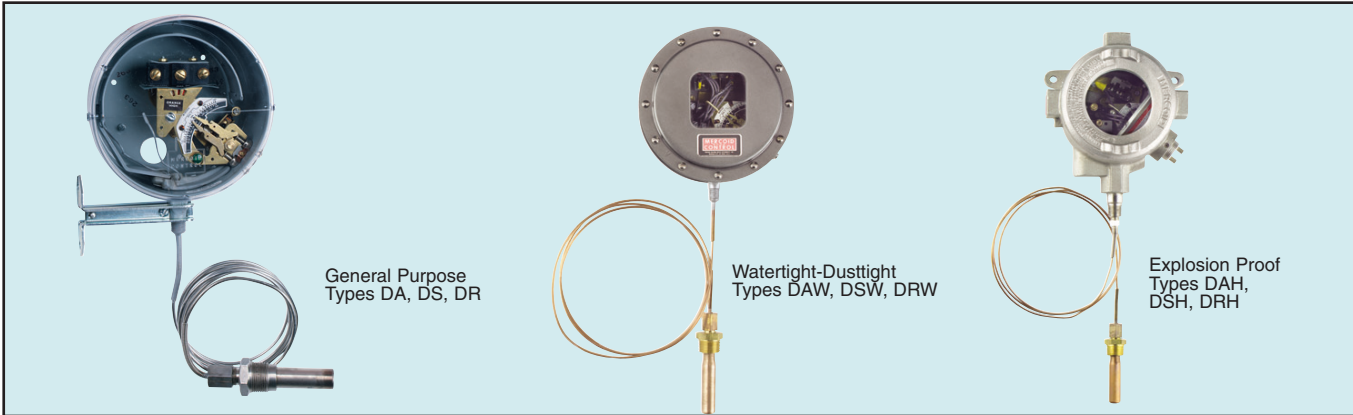




Series D

Remote Bulb Temperature Controls



General Purpose
Types DA, DS, DR

Watertight-Dusttight
Types DAW, DSW, DRW

Explosion Proof
Types DAH,
DSH, DRH

To Order: Specify Type, Circuit Suffix No., Range Number, Bulb Type and Capillary Length desired. See page 155.

SPECIFICATIONS

Maximum Ambient Temperature: 180°F.

Maximum Bulb Temperature: See chart.

Bulb Connection: 3/4" male NPT.

Electrical Ratings: See chart.

Housing: Pressed steel with transparent cover or aluminum (H)
Dial: Calibrated in °F/°C.

Maximum Bulb Pressure: 300 psi for bulb No. 2. Bulb No. 1 for open tank use or other non-pressurized applications only.

Capillary Length: 6' standard.

Weight: 5 lb.

POPULAR MODELS – OPERATING RANGES/SERIES D

WITH SNAP ACTION CONTACTS Types DA-7035, DS-7235-153, & DS-7235-804

ADJUSTABLE OPERATING RANGE	RANGE NO.	MAX. PROCESS TEMP. NOT TO EXCEED	ADJUSTABLE DEADBAND	FIXED DEADBAND	FIXED DEADBAND	BULB FURNISHED WITH 6' CAPILLARY UNLESS OTHERWISE SPECIFIED (1)	BULB MIN. INSERTION DEPTH (2)
			DA-7035-153	DS-7235-153	DS-7235-804 (2) SPDT		
			MINIMUM DEADBAND	FIXED DEADBAND	FIXED DEADBAND	BULB NO./CAP. MAT'L.	
-60 to +30°F (-50 to 0°C)	1N	150°F (65°C)	23°F (13°C)	5°F (3°C)	5°F (3°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
0 to 100°F (-18 to 40°C)	3N	240°F (115°C)	25°F (14°C)	5°F (3°C)	5°F (3°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
50 to 150°F (10 to 65°C)	4N	250°F (120°C)	25°F (14°C)	5°F (3°C)	5°F (3°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
100 to 200°F (40 to 95°C)	5N	300°F (150°C)	25°F (14°C)	5°F (3°C)	5°F (3°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
140 to 300°F (60 to 150°C)	7N	500°F (260°C)	41°F (23°C)	8°F (4.5°C)	8°F (4.5°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
250 to 415°F (120 to 215°C)	8N	550°F (290°C)	42°F (23°C)	9°F (5°C)	9°F (5°C)	No. 2 S.S./S.S.	2 1/4" (73 mm)
350 to 550°F (175 to 290°C)	9N	600°F (315°C)	50°F (28°C)	10°F (6°C)	10°F (6°C)	No. 2 S.S./S.S.	4 1/4" (124 mm)
100 to 300°F (40 to 150°C)	10N	500°F (260°C)	50°F (28°C)	10°F (6°C)	10°F (6°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
100 to 500°F (40 to 260°C)	11N	600°F (315°C)	100°F (56°C)	20°F (12°C)	20°F (12°C)	No. 2 S.S./S.S.	2 1/4" (73 mm)
ELECTRICAL RATINGS			See Code D	See Code E	See Code G		

WITH MERCURY SWITCH CONTACTS Types D-35, D-535, D-235

ADJUSTABLE OPERATING RANGE	RANGE NO.	MAX. PROCESS TEMP. NOT TO EXCEED	ADJUSTABLE DEADBAND	ADJUSTABLE DEADBAND	FIXED DEADBAND	BULB FURNISHED WITH 6' CAPILLARY UNLESS OTHERWISE SPECIFIED (1)	BULB MIN. INSERTION DEPTH (2)
			DA-35 DAW-38 DAH-35	DA-535 DAW-538 DAH-535	DS-235 DSW-235 DSH-235		
			MINIMUM DEADBAND	MINIMUM DEADBAND	FIXED DEADBAND	BULB NO./CAP. MAT'L.	
-60 to +30°F (-50 to 0°C)	1N	150°F (65°C)	7°F (3.5°C)	3°F (2°C)	1.5°F (1°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
0 to 100°F (-18 to 40°C)	3N	240°F (115°C)	7°F (4°C)	3°F (2°C)	1.5°F (1°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
50 to 150°F (10 to 65°C)	4N	250°F (120°C)	7°F (4°C)	3°F (2°C)	1.5°F (1°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
100 to 200°F (40 to 95°C)	5N	300°F (150°C)	7°F (4°C)	3°F (2°C)	1.5°F (1°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
140 to 300°F (60 to 150°C)	7N	500°F (260°C)	12°F (7°C)	5°F (3°C)	2.5°F (1.5°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
250 to 415°F (120 to 215°C)	8N	550°F (290°C)	12°F (7°C)	5°F (3°C)	2.5°F (1.5°C)	No. 2 S.S./S.S.	2 1/4" (73 mm)
350 to 550°F (175 to 290°C)	9N	600°F (315°C)	14°F (8°C)	6°F (3.5°C)	3°F (2°C)	No. 2 S.S./S.S.	4 1/4" (124 mm)
100 to 300°F (40 to 150°C)	10N	500°F (260°C)	14°F (8°C)	6°F (3.5°C)	3°F (2°C)	No. 2 S.S./Copper	2 1/4" (73 mm)
100 to 500°F (40 to 260°C)	11N	600°F (315°C)	28°F (16°C)	12°F (7°C)	6°F (4°C)	No. 2 S.S./S.S.	2 1/4" (73 mm)
ELECTRICAL RATINGS			See Code A/B	See Code H	See Code I		

(1) All bulbs, including those with a copper capillary, are made of Type 304 Stainless Steel. (2) Insertion depth may be increased through use of bulb supports or wells – see page 155 or consult factory.

<h3>DA SERIES SWITCH ACTIONS</h3>	<table border="1"> <thead> <tr> <th>CIRCUIT SUFFIX NO.</th> <th>SWITCH ACTION</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td>SPST, OPENS on increase</td> </tr> <tr> <td>-3</td> <td>SPST, CLOSES on increase</td> </tr> <tr> <td>-153</td> <td>SPDT, one circuit OPENS as other CLOSES</td> </tr> <tr> <td>-156*</td> <td>SPDT, consists of two SPST switches, one CLOSES as one OPENS. Electrically independent.</td> </tr> <tr> <td>-804*</td> <td>(2) SPDT, Two circuits OPEN as two CLOSE.</td> </tr> </tbody> </table>	CIRCUIT SUFFIX NO.	SWITCH ACTION	-2	SPST, OPENS on increase	-3	SPST, CLOSES on increase	-153	SPDT, one circuit OPENS as other CLOSES	-156*	SPDT, consists of two SPST switches, one CLOSES as one OPENS. Electrically independent.	-804*	(2) SPDT, Two circuits OPEN as two CLOSE.	<h3>For Snap-Action Contacts</h3> <table border="1"> <thead> <tr> <th>CIRCUIT SUFFIX NO.</th> <th>SWITCH ACTION</th> </tr> </thead> <tbody> <tr> <td>-153</td> <td>SPDT one circuit OPENS as other CLOSES</td> </tr> <tr> <td>-804</td> <td>Two SPDT operate simultaneously in one direction upon increase (or decrease when specified)</td> </tr> </tbody> </table>	CIRCUIT SUFFIX NO.	SWITCH ACTION	-153	SPDT one circuit OPENS as other CLOSES	-804	Two SPDT operate simultaneously in one direction upon increase (or decrease when specified)																																																																																							
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① -153 circuit available 1A, 440V AC on special order.
② Also rated 0.9 Amps at 24V AC.

③ 1/4 HP at 120V AC, 1/2 HP at 240V AC
④ 5A, 30V DC resistive.