

Mechanical thermostats

A19
Capillary and space thermostats, IP30

These thermostats are available with fixed or adjustable differential. The various control ranges cover a broad range of temperature applications with a minimum number of models.

On request a built-in high or low limit stop is possible and can be adjusted quickly and easily in the field. All models have a universal way of adjustment. For this purpose a knob and sealing cap are enclosed.

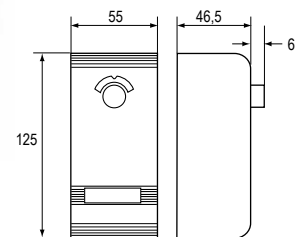
All are equipped with IP50 enclosure.

Features

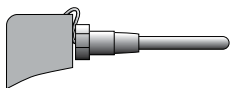
- ▶ Liquid filled sensing element
- ▶ Dust tight Penn switch
- ▶ Trip free manual reset
- ▶ Front adjustment

Application

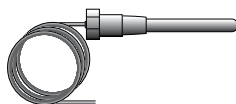
These thermostats are designed for refrigeration, cooling, heating, ventilation and air-conditioning applications. Standard models are provided for remote sensing or room sensing. Models with manual reset are available for low or high limit functions.



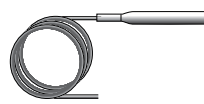
Dimensions in mm



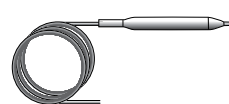
Style 2



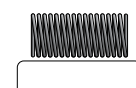
Style 4H



Style 1a



Style 1b



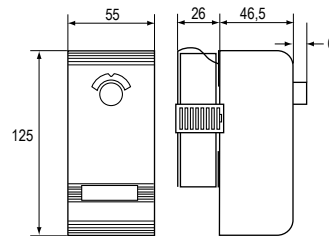
Style 3

Ordering information

A19A capillary thermostats

Codes	Range (°C)	Diff. (K) fixed	Style	Cap. length (m)	Bulb size (mm)	Switch 8A auto recycle	Additional features
A19AAC-9005	-5 to +28	2	1b	2	135	SPDT open low	---
A19AAC-9009	40 to 120	3.5			100	SPDT open high	
A19AAC-9102	-35 to +10	2.5			110		
A19AAC-9107	35 to 150	4	1a	2	265	SPDT open low	∅ 5 mm bulb
A19AAC-9108	90 to 290	5.5			155		---
A19AAC-9123	0 to 10	2.5			80		Bulb ∅ 9.3 mm
A19AAC-9124	-5 to +28	2	1b	5	135	SPDT open low	---
A19AAC-9127	1 to 60	1.5		3	115		Maximum bulb temperature 85 °C
A19AAC-9130	-10 to +14	2.5		110	Case compensation, low limit stop at 2 °C		
A19AAF-9101	0 to 10	1.5	1a	2	80	SPDT open low	∅ 9.3 mm bulb
A19AAF-9102							∅ 9.3 mm bulb, case compensation
A19AAF-9103							5 to 32

Mechanical thermostats

A19
Ordering information


Dimensions in mm

Codes	Range (°C)	Diff. (K) fixed	Style	Cap. length (m)	Bulb size (mm)	Switch 8A auto recycle	Additional features	
A19A capillary thermostats								
A19ABC-9011	40 to 120	3 to 13	2	---	---	SPDT open high	1/2-14NPT connector	
A19ABC-9012			4H	2	---			
A19ABC-9036	-35 to +40	2.8 to 8	1b	6.5	110	5 A switch, SPDT open low	Universal replacement	
A19ABC-9037	-35 to +40			3.5		---		
A19ABC-9103	-35 to +10	2.8 to 11		2		135	SPDT open low	---
A19ABC-9104	-5 to +28	2 to 8	2					
A19ABC-9106	10 to 95	3.5 to 14	1a	3.5	75	SPDT open high	Diam. 7.4 mm bulb	
A19ABC-9116	1 to 60	2 to 8.5	1b	3	115	SPDT open low	Max. bulb temp. 85 °C	
A19ABC-9117				5				
A19AGF-9101*	0 to 13	1.5 fixed	1a	2	80			
A19ACC capillary thermostat, lock-out low with manual reset								
A19ACC-9100	-35 to 10	6	1b	2	110	SPDT open low	---	
A19ACC-9101	-5 to 28	4			135			
A19ACC-9103				5	110			Low limit stop set at 2 °C
A19ACC-9105	-35 to 10	6		3.5				
A19ACC-9107	-5 to 28	4		3	135			---
A19ACC-9111	-35 to 10	6		5	110			Low limit stop set at 2 °C
A19ACC-9116				6.5				Low limit stop set at 3 °C, universal replacement
A19ADC capillary thermostat, lock-out high with manual reset								
A19ADC-9200	40 to 120	7	2	---	---	SPDT open high	1/2-14 NPT connector	
A19B space thermostats								
A19BAC-9001	0 to 43	2	3	---	---	SPDT open high	Vinyl coated element	
A19BAC-9250	-35 to 10	2.5				SPDT open low		
A19BAC-9251	-5 to 28	2				SPDT open low, 5A		
A19BBC-9275	-35 to 40	2.8 to 8						
A19D strap-on thermostats								
A19DAC-9001	40 to 120	4.5	20	---	---	SPDT open high	8 A switch, NEMA 1 enclosure, universal adjustment, including mounting strap	
A19DAF-9001	92 to 116	2	20				3 A switch, universal adjustment, including mounting strap	

Note: * Quantity orders only

Mechanical thermostats

A19

Capillary and space thermostat, IP65

These thermostats are available with fixed or adjustable differential. The various control ranges cover a broad range of temperature applications with a minimum number of models.

SPDT contacts are standard on all models.

Features

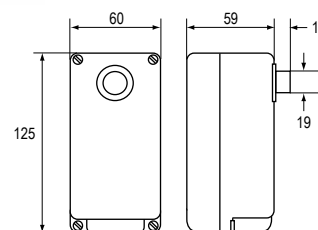
- ▶ Liquid filled sensing element
- ▶ Dust tight Penn switch
- ▶ IP65 protection class
- ▶ Front adjustment

Application

These thermostats are designed for applications where a splash-proof and/or dust-tight enclosure is required.

Four types are available:

- ▶ Types A19ARC are general purpose capillary thermostats.
- ▶ Types A19BRC and A19BQC are space thermostats with coiled element to be used as farm control, outdoor thermostats or in cold storage rooms.
- ▶ Types A19AQF is specially designed for milkcool-tank applications.
- ▶ Type A19AQC-9101 is specially designed for ice-bank application.



Dimensions in mm

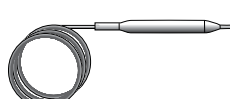
Ordering information

A19A Capillary Thermostats

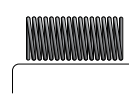
Codes	Range (°C)	Diff. (K) adjust.	Style	Cap. length (m)	Bulb size (mm)	Switch 8A auto recycle	Additional features
A19ARC-9100	-35 to +10	2.8 to 11	1b	2	110	SPDT open low	---
A19ARC-9101	-5 to +28	2 to 8	1b	2	135		Ø 7.4 mm bulb
A19ARC-9104	-20 to +65	3.5 to 13	1a	3.5	75		Concealed scale, screwdriver adjustment, bulb and cap. rubber coated
A19ARC-9105	5 to 50	2.5 to 11	1b	2	110		---
A19ARC-9107	40 to 120	3.5 to 13.5	1a	2	100		Maximum bulb temperature 85 °C
A19ARC-9109	1 to 60	2 to 8.5	1a	3	115		Concealed scale, screwdriver adjustment
A19ARC-9110	-10 to +50	2.5 to 11	1b	2	110		---
A19ARC-9113	-35 to +40	2.8 to 11	1b	2	110		---



Style 1a



Style 1b



Style 3

Mechanical thermostats

A19
Ordering information

Codes	Range (°C)	Diff. (K) Adjust.	Style	Cap. length (m)	Bulb size (mm)	Switch 8A auto recycle	Additional features
A19A capillary thermostats							
A19AQC-9101	-5 to 5	2 fixed	1a	2	80	SPDT open low	5 A switch, Ice bank control, bulb Ø 9.3 mm, case compensation, concealed scale, screwdriver adjustment, scale calibrated at increasing temperature
A19AQC-9102	-5 to 28	2 fixed	1b	2	135		8 A switch, calibrated and set at 2 °C, case compensation, pointer adjust, PG16 connect., ½ - 14 NPT WELL connector
A19AQC-9104	-35 to 10	2 fixed	1b	2	110		Case compensation, knob adjustment
A19AQC-9200	-5 to 55	2.5 fixed	2	---	---		---
A19AQF-9100	0 to 13	1.5 fixed	1a	2	80		3 A switch, bulb Ø 9.3 mm, case compensation, concealed scale, screwdriver adjustment
A19AQF-9102	0 to 13	1.5 fixed	1a	3	80		3 A switch, cap. thermostat, bulb Ø 9.3 mm, case compensation, concealed scale, screwdriver adjustment
A19B space thermostats							
A19BRC-9250	-5 to +28	2 to 8	3	---	---	SPDT open low	Vinyl coated element
A19BRC-9251	0 to 43	2 to 8	3				
A19BRC-9252	-35 to +10	2.8 to 11	3				
A19BRC-9253	-35 to +40	2.8 to 11	3				
A19BQC-9252	-5 to +25	2 fixed	3				Concealed scale, screwdriver adjustment