



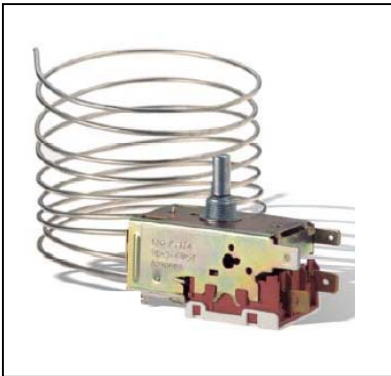
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RW- 110.12E

RANCO MECHANICAL THERMOSTATS

K SERIES Refrigeration applications



Series thermostats covering different requirements in commercial refrigeration and packaging
Differential fixed
Faston connections
Powers of the contacts of six (6) to 16 (16)
Different sensor types
Level of regulation varies code
Intervention point fixed or adjustable
To model different operation to cover a wide range in the refrigeration sector
Capillary straight, spiral or bulbous

Model	Application	Temperature range °C				Contact	Capillary length mm	See table Components**	Format sensor	Fixing
		Cool		Heat						
		Open	Close	Open	Close					

SERIE K22- K55

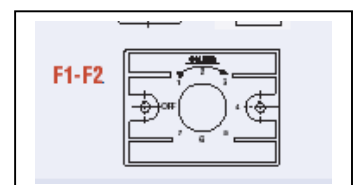
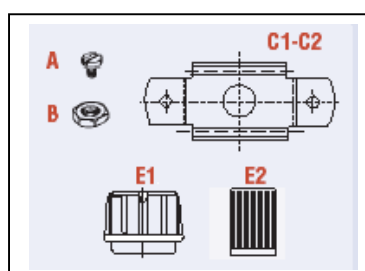
K22L1020000	Ice cubes	-20,5	-15,2	-7	-1	Switched 6(6)A 250 V	2000	A	Winding	Among axis 55,5 mm
K22L3020000	Ice cubes	-19,5	-25,5	-3	-10	Switched 6(6)A 250 V	1500	A	Winding	Among axis 55,5 mm
K22L2084000	Ice cubes	1	4,5	6,5	10	Switched 6(6)A 250 V	1500	A, C2, E1	straight	Among axis 55,5 mm
K22L5013000	air conditioners	3	1	15		Switched 23(6)A 250V	700	C2	straight	Among axis 55,5 mm
K55L5710000	Ice cubes defrost			-5 a 14 fijo		Simple 6(6)A 250 V	1200	B	straight	Among axis 55,5 mm
K55L5013001	Ice cubes defrost			5 a 10 fijo		Simple 6(6)A 250 V	2000	C2	straight	Among axis 55,5 mm

SERIE K50

K50L3046001	Fridge Furniture	-17	-8	7		Simple 6(6)A 250 V	1200	A, B, C2 E1, F2	straight	Among axis 55,5 mm
K50L3047001	Fridge Furniture	-23,5	-17	-11		Simple 6(6)A 250 V	1200	A, B, C2 E1, F2	straight	Among axis 55,5 mm
K50L3048001	Bottle rack	-1	3,5	7,5		Simple 6(6)A 250 V	1200	A, B, C2 E1, F2	straight	Among axis 55,5 mm
K50L3049001	Ice cream storage	-38		-21	-15	Simple 6(6)A 250 V	1200	A, B, C2 E1, F2	straight	Among axis 28 mm
K50P1118000	Icebox	-14,5	-11,5	0	3	Simple 6(6)A 250 V	1400	B	straight	Central nut
K50P1115002	Ice cubes	1,5	4	11		Simple 6(6)A 250 V	2000	A, B, C2 E1, F2	straight	Central nut
K50P1115004	Ice cubes Producer	1,5	4	11		Simple 6(6)A 250 V	2000	A, B, C2 E1, F2	straight	Central nut
K50L3389000	Bottle rack	-3	2	12,5		Simple 6(6)A 250 V	1200	C1, E2	straight	Among axis 55,5 mm
K50H2005001	Bottle rack	-2,5	-5	14		Simple 6(6)A 250 V	1450	B	Winding	Central nut

** PARTS AND ACCESSORIES FOR THE K SERIES

Letter	Description	Code
A	Screws	00080154002
B	Nut	00058175004
C1	High Bridge	04300915017
C2	Low bridge	04300737002
E1	Knob width	04600123001
E2	High Knob	04600351001
F1	Plastic dial plate	02601661001
F2	Metal dial plate	00049610001



V SERIES Remplacent thermostats



Series replacement thermostats for applications in commercial refrigeration and air conditioning industry.

Differential fixed

Straight capillary

Variable scale depending on the model regulation.

Powers of contacts 6 (6) to 16 (16) A

Faston connections

Model	Application	Temperature range °C						Contact	Capillary length mm
		Cool		Heat		End defrost	Signal		
		Open	Close	Open	Close				
VC100000000 (K509)	1 door refrigerator	-23	-14	-7	+2			6(6)A a 250V	1200
VA200000000 (K50)	1 door refrigerator Apsortion refrigerator	-18	-14	-0,5	+3,5			6(6)A a 250V	2000
VP400000000 (K60)	1 door refrigerator Manual defrost button	-25	-19	-11	-4	+5,5		6(6)A a 250V	1200
VS500000000 (K54)	Freezer	-34	-26	-20	-12		5 °C T close	3-4 6(6) 3-6 0,1A a 250V	2000
VT900000000 (K59)	2 door refrigerator Automatic defrost (1compressor)	-26	+3,5	-11	+3,5	+3,5		3-4 6(6) 3-6 0,1A a 250V	1200
VT930000000 (K59)	2 door refrigerator Automatic defrost (1compressor)	-26	+3,5	-11	+3,5	+3,5		3-4 6(6) 3-6 0,1A a 250V	3000
VT930000000 (K59)	Conservative Ice cream	-34	-26	-20	-12			6(6)A a 250V	2000
VG700000000 (K50)	Beverage cooler	+1,5	+4	+8	+11			6(6)A a 250V	2000

LO - LM Calibration thermostats set



Series of fixed setting thermostats, switch opening single by temperature rise.

Are called positive security because the rupture of the capillary causes the final opening of the contact.

Series available

LO with automatic reset

LM manual reset

Contacts available

SPST (Single Pole, unidirectional)

DPST (Bipolar, unidirectional)

O¹⁶ SERIES Temperature Control commercial applications



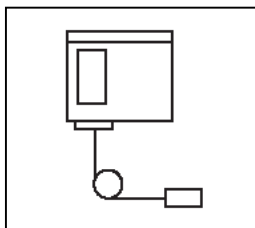
Box IP44 or IP66 (O52) on request
 All models with relay switches, which allows open or close when the temperature increases and low Point differential regulation and fixed or adjustable
 Possibility to remove the cover without touching the regulation
 Some module feature that allows Stop button to stop the installation without changing the regulation
 250V 50Hz Power contacts 16 (16)

THERMOSTAT CAPILLARY AND BULB WITH ENVIRONMENT

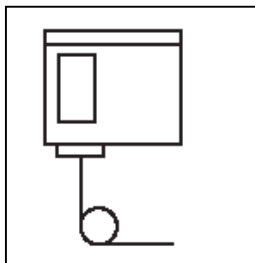
Model	Temperature range °C	Differential °C		Capillary length mm	Bulb Dimensions Ø x L mm	maximum allowable temperature °C	
		Upper limit	Lower limit			capillary and bulb	box
O16H6980101	(-22) -18 a 13	1,7 a 7	3 a 12	1800	14,5 x 140	55	65
O16H6981101	(-10) -5 a 25	1,7 a 7	3 a 12	1800	14,5 x 140	65	65
O16H6982101	(-2) -1 a 10	1,0		1800	9,5 x 152	65	65
O16H6930101	(-40) -34 a 32	3 a 22		1800	9,5 x 152	65	65
O16H6932101	(30) -35 a 115	2 a 14		1800	9,5 x 152	65	65

AMBIENT THERMOSTAT WITH STRAIGHT CAPILLARY OR WINDING

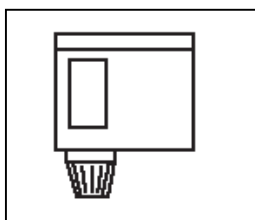
Model	Temperature range °C	Differential °C		Capillary length mm	Format sensor
		Upper limit	Lower limit		
O16H6922101	(-22) -18 a 13	1,7 a 7	3 a 12	2000	Straight
O16H6950101	(-40) -35 a -7	1,7 a 7	3 a 12	2000	Winding
O16H6951101	(-22) -18 a 13	1,7 a 7	3 a 12	2000	Winding
O16H6954101	(-10) -5 a 25	1,7 a 7	3 a 12	2000	Winding
O16H6958101	(-40) -35 a -7	1,7 a 7	3 a 12	2000	Winding
O16H6959101	(-22) -18 a 13	1,7 a 7	3 a 12	2000	Winding



Room thermostat with capillary and bulb
 Sensitive part concentrated in the bulb.
 Applications where temperature control or the hair may be different from the bulb.



Application: when the temperature of the coldest sensitive control
 The sensor with straight hair is sensitive along its entire length
 To control zone capillary Limited advises spiral for large area straight capillary



Application: when the temperature of the coldest sensitive control

W35 Multifunction Thermostat SPDT electro-mechanical



The thermostat automatically opens (hot version) or closed (cold version) the primary contact when the remote sensor bulb reaches the regulated value, and thereafter, when the temperature differential value again to close or open the contact depending on the version.

The controlled temperature is maintained with minimal fluctuations.

The thermostat has multiple applications:

- Refrigerated
- Saunas
- Greenhouses
- Industrial environments
- Conditioning
- Boilers
- Other application that requires a temperature control

MODELO	RANGO °C	BULBO	CAPILAR	CAJA
W351NC0150C00	-35 a +35	Ø 6,8 x 98 mm	1500 mm	NO
W351NH1150C00	0 a +90	Ø 6,8 x 98 mm	1500 mm	NO
W351NH3150C00	0 a +120	Ø 6,8 x 98 mm	1500 mm	NO
W3510C0150C00	-35 a +35	Ø 6,8 x 98 mm	1500 mm	SI
W3510H1150C00	0 a +90	Ø 6,8 x 98 mm	1500 mm	SI
W3510H3150C00	0 a +120	Ø 6,8 x 98 mm	1500 mm	SI
W3520C0000C00	-35 a +35	Ø 7 x 98 mm	-	SI
W3520H7000C00	0 a +40	Ø 7 x 98 mm	-	SI

Capacidad 15(3) A @ 400Vca
 N° de ciclos 100.000
 Resistencia de aislamiento >1000 MΩ
 Temperatura máxima 90 °C (cuerpo)
 Rangos entre -35 y 120 °C según modelo
 Rigidez dieléctrica 2000 Vca 1 minuto
 Conexiones Fasto 6,3 x 0,8
 Normativa ENECO3
 Protección IP40

