

THERMOSTATS & CONTROLLERS



LOW LIMIT TEMPERATURE CONTROLLERS

L480 SERIES

DESCRIPTION

The **Honeywell L480 Series** low limit controllers operate electric dampers, valves and compressor or fan motors to provide temperature or limit control of air conditioning systems and refrigeration units. The **L480B** has an SPDT switch and automatically resets; the **L480G** has an SPST switch that opens on a fall in temperature and requires manual reset. The **L482A** has two SPST switches and manual reset; the main switch opens, and the auxiliary switch closes, on a fall in temperature.

FEATURES

- *Dual temperature scale plate provides both Fahrenheit and Celsius readings*
- *No sensing bulb, the controller operates at the coldest point (1 foot section) of the 20 ft. element for complete coverage*
- *Dustproof and moisture proof enclosed switch for trouble-free operation*
- *Horizontal or vertical mounting for installation flexibility*

Honeywell



L482A1004



L480B1239



APPLICATION

- *Air handling unit coil freeze protection*
- *Freezer cabinets*
- *Display cases*
- *Beverage coolers*
- *Frost alarm for storehouses, orchards*

SPECIFICATIONS

Sensing Element	20' (6m) element, 1/8" dia., no bulb, controller operates at coldest point
Switch action	
L480B	SPDT, automatic reset, makes R-B, breaks R-W on temperature fall
L480G	SPST, manual reset, breaks circuit on temperature fall
L482A	2 SPST, manual reset, main switch (M2) opens, aux. switch (M1) closes on temperature fall
Switch Ratings	See Table 1 and Table 2
Conduit Connection	7/8" (22mm) hole for 1/2" conduit with 1-3/32" (28mm) knockout ring for 3/4" conduit
Setpoint Range	
L480B, G	20° to 60°F (-5° to 15°C)
L482A	15° to 55°F (-9.4° to 13°C), with setpoint stops minimum 34°F
Setpoint Adjustment	Slotted screwdriver
Differential	
L480B, G	Non-adjustable, additive, fixed at 10°F (6°C)
L482A	Non-adjustable, additive, fixed at 5°F (3°C)

Operating Temperature	
L480B, G	-20° to 125°F (-11° to 52°C)
L482A	20° to 140°F (-7° to 60°C)
Maximum Element Temperature	
L480B, G	225°F (107°C)
L482A	250°F (121°C)
Dimensions	
L480B, G	3.3"H x 3.7"W x 2.3"D (8.4 x 9.4 x 5.9 cm)
L482A	4.7"H x 3.9"W x 2.1"D (11.9 x 10.1 x 5.3 cm)
Weight	
L480B	1.5 lb (0.68 Kg)
L480G	1.6 lb (0.73 Kg)
L482A	2.3 lb (1.04 Kg)
Approvals	UL Listed file #E49725, Vol. No. 2, dated 02-09-66; Guide No. SDFY2 CSA Certified Listing G, File No. LR1620; Guide No. 400-E-0
Warranty	1 year

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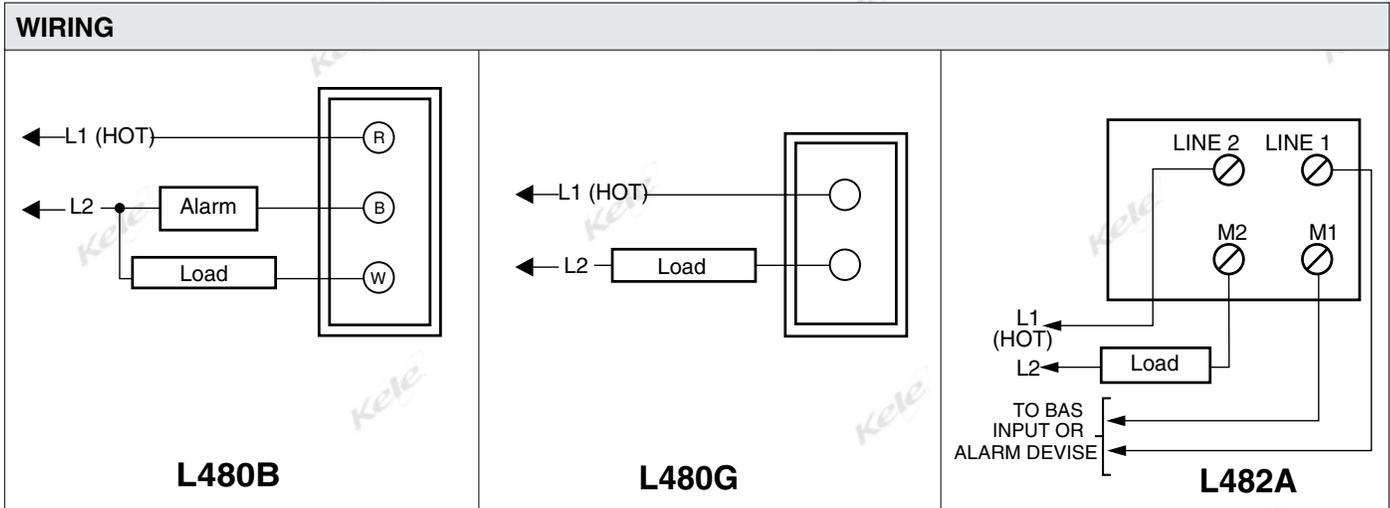


TABLE 1: AMPERE RATINGS L480B, G

	120 VAC	240 VAC
Full Load	10.2	6.5
Locked Rotor	61.2	39.0

DC Rating: 0.2A @ 120 VDC, 0.1 A @ 240 VDC
Pilot Duty: 125 VA

TABLE 2: AMPERE RATINGS L482A

	120 VAC	208 VAC	240 VAC	277 VAC
Switch M2 (Main)				
Full Load	16.0	9.2	8.0	-
Locked Rotor	96.0	55.2	48.0	-
Non-inductive	16.0	9.2	8.0	7.2
Switch M1 (Auxillary)				
Full Load	6.0	3.3	3.0	-
Locked Rotor	36.0	19.8	18.0	-
Non-inductive	6.0	6.0	6.0	6.0

Pilot Duty (both poles): 125 VA @ 24 to 600 VAC; 57.5 VA @ 120 to 300 VDC

ORDERING INFORMATION

MODEL	DESCRIPTION
L480B1239	Low limit thermostat with auto-reset, SPDT switch and 20' capillary
L480G1044	Low limit thermostat with manual reset, SPST switch and 20' capillary
L482A1004	Low limit thermostat with manual reset, 2 x SPST switches and 20' capillary

MODEL	RELATED PRODUCTS
CC-1G-K	Plastic capillary and sensor holder mounting clip
ES1051	Freeze spray, 8 fl oz
M-648-K	Copper-clad capillary mounting clip

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