



Digital Electronic Thermometer

TED300

Overview

The BREAKERMATIC (r) TED300 is a digital electronic thermometer designed to display the temperature of a specific environment using its 8-segment LED display with 30 mm digits. It offers a temperature range from -40°C (-40°F) to 40°C (99°F) and can be configured to display the temperature in degrees Celsius or Fahrenheit.

The temperature sensor is a solid-state semiconductor device of the NTC type. It comes with a 1.5 m connection cable.

The TED300 connects directly to the electrical supply of the refrigeration equipment or cabinet and can operate on either 120VAC or 220VAC.

Uses

The TED300 is used to display the temperature of refrigerated cabinets or display cases, such as refrigerated display cases for beverages, wines, meats, or dairy products, etc. It can also be used to display ambient temperatures.

Ideal for use as a marketing aid by displaying the temperature of the beverage cabinet at the point of sale.

Features

- Large 30 mm high digits for easy viewing.
- NTC sensor with 1.5 meter cable.
- Can display °C or °F
- Multi-voltage, can be used equally well on equipment operating on 120 VAC or 220 VAC
- Does not require external transformers or complicated connections.
- Low power consumption.
- Housing can be recessed into chassis or panels.

Models

Model	LED Color	Voltage	Frequency	Digits	Temperature Range	Resolution	Electrical Consumption	Language
TED300-MVAEST	Blue	120V -220V	50/60 Hz	2	-40°C a 40°C	1°C (0.1°C entre -9.9 y 9.9 °C)	3.5VA	Spa. – Eng.
TED300-MVREST	Red	120V -220V	50/60 Hz	2	-40°C a 40°C	1°C (0.1°C entre -9.9 y 9.9 °C)	3.5VA	Spa. – Eng.

Specifications

Display and reading.		
Digits	2	
Resolution	0.1° entre -9.9° y 9.9° 1° entre -40° y -10° 1° entre 10° y 99°	
Error	1% + 1 lsd.	
Electrical		
Operating voltage range	85VAC a 265 VAC	VAC
Nominal Frequency	50 - 60	Hz
Electrical consumption		
power	0.0035	kVA
Mechanicals		
Dimensions		
Length	110	mm
Width	50	mm
Height	35	mm
Weight	137	gr.
Connections		
Input Terminals	Flat terminals 6.3 mm (1/4")	
Isolation materials		
Enclosure	ABS	
Screen	PC	
Connector housing	PA-66	
Printed circuit board	FR4	
Flame retardant classification (UL94)		
Enclosure and screen	V0, 5VA	
Connector housing	V0	
Printed circuit board	V0	
Glow wire test (NTC 5283:2015)	Enclosure and screen 650°C pass Connector housing 850°C pass	
Isolation resistance NTC1650:2004 No. 17.1	>550	Mohms
Dielectric strength NTC1650:2004 No. 17.2,	>1.25	kV
Impact (NTC /IEC 62262:2013)	pass	
Contacts		
Material	Tinned brass: Cu 70% Zn 30% plating: Sn 100%	
Other materials		
Contains no lead, mercury, or halogens. The solder used is 99.3% Sn 0.7% Cu. The electronic components comply with the RoHS 3 directive.		
Environmental		
Maximum operating ambient temperature	45	°C
Place of use: Indoor use, in a dry and ventilated place	Yes	
Outdoor use and/or in wet places	No	

Shipping packaging

Type	Capacity	Dimensions (Length x Width x Height) (cm)	Weight (Kg)
Carton CC60	36 pcs (9 x 4 pack)	51 x 35 x 50	8.90
CC 6 pack	4 pcs in blister	24 x 19 x 16	1