



PT2000 & PT2100



User Manual

Warranty

This product is fully warranted against defective materials and/or workmanship for a period of one year after purchase, provided it was not improperly used. For your protection, please use this product as soon as possible. If returned, it must be securely wrapped, sent prepaid and insured to:

Pacer Industries, Inc.
1450 First Avenue
Chippewa Falls, WI 54729
PH: 715-723-1141
FX: 715-723-7890

Please include a note with name, address, telephone number and description of the problem. Although we provide assistance on Pacer products both personally and through our literature, it is still the total responsibility of the customer to determine the suitability of the product for use in their application.

This manual is provided by Pacer Industries without any kind of warranty. Precautions have been taken in accurately preparing this manual; however, we neither assume responsibility for any omissions or errors that may appear nor assume liability for any damages that result from the use of the products in accordance with the information contained in the manual.

INTRODUCTION

Pacer models PT2000 (°F) and PT2100 (°C) digital thermometers are accurate, versatile instruments for measuring temperature. They are available with a variety of chromel alumel type K thermocouple probes (see APPENDIX A). These units have cold-junction compensation and are thus quite accurate.

SECTION 1 - SPECIFICATIONS

Sensor:	Type K thermocouple
Range:	
Temperature – PT2000:	
Low range:	-85.0° to 199.9°F
High range:	-85° to 1999°F
Temperature – PT2100:	
Low range:	-65.0° to 199.9°C
High range:	-65° to 1150°C
Accuracy:	0.5% of reading ±1 digit
Resolution:	
Low range:	0.1°F or °C
High range:	1°F or °C
Sampling rate:	2.5 measurements/second
Lead resistance:	Up to 150' < 0.1°F deviation
Connector:	Miniature type K plug
Operating temperature:	32° to 115°F (0° to 45°C)
Storage temperature:	14° to 140°F (-10° to 60°C)
Power supply:	9V alkaline battery (Eveready 522 or equivalent)
Battery Life:	Approximately 100 hours
Battery check:	Automatic "LO BAT" display
Dimensions:	
Instrument:	4.75" x 2.75" x 1"
Weight:	5.5 ounces with battery
Display:	0.5" LCD, 3 ½ digits
Options:	
CG-3 charger:	PN 6043 (with NiMH battery)
Rigid carrying case:	PN 6005
Leatherette holster:	PN 3865
Various specialty probes:	(see APPENDIX A or call us)
Included:	
1 piece:	PT2000 or PT2100 thermometer
1 piece:	9V alkaline battery
1 piece:	PN M2963 operation manual

SECTION 2 – OPERATION

Assure that unit is OFF. Attach type K probe and install battery (if none is present). The switch position to the left is OFF; center position is ON in the LOW RANGE and to the right is ON in the HIGH RANGE. Hold the probe tip at the location to be measured. The K-type thermocouple is located at the tip. If the temperature being measured is over range (see SPECIFICATIONS), a “1” will be displayed with the other digits blinking.

NOTE: On both units “LO BATT” indicates a low battery. Change (or charge) the battery.

APPENDIX A – PROBES

<u>MODEL</u>	<u>TEMP RANGE</u>	<u>RESPONSE</u>
TK101 Immersion 1.5x130mm	1650°F/900°C	6 sec
TK101/300 “ 1.5x300mm	“	“
TK102 “ 3.0x130mm	2000°F/1100°C	12 sec
TK102/300 “ 3.0x300mm	“	“
TK103 Surface 130mm	1652°F/900°C	2.3 sec
TK104 Air 130mm	1112°F/600°C	2.6 sec
TK105 Surface RA 130mm	842°F/450°C	8 sec
TK106 Needle tip 130mm	1100°F/600°C	12 sec
TK107 Clamp-on	392°F/200°C	8 sec
TK109 Flexible-wire 1000mm	900°F/480°C	0.9 sec
TK111 HD surface 130mm	842°F/450°C	8 sec
TK115H Ladle type lance – straight tip		
TK115L Furnace type lance - 90° tip		
TK115T-8” Foundry lance tip		
TK115T-12” Foundry lance tip		
TK115T-24” Foundry lance tip		
TK119 Frozen food – screw tip	392°F/200°C	18 sec

Notes: