TEMPERATURE - 2000 SERIES

A WAGE RANGE OF HAND-HELD DIGITAL THERMOMETERS

In response to today's ever-increasing demand for speed, accuracy and performance at an affordable price, Digitron has introduced the 2000 series of hand-held digital thermometers. The 2000 Series provides precise, stable readings, basic models ON-HOLD-OFF and advanced functions models.

· *SpeedRead>>:* for quicker indicative readings
· **Logging**
· Long battery life: typically 500 hours
· Wide temperature ranges: -250°C to +1750°C / 418°F to +3182°F
· Accurate performance: 0.2% of rdg
· For type KTJNRS Thermocouples, PT100 and Thermistor sensors
· Backlight display
· Robust case for long life in harsh environments
· 2 year warranty
· Selectable auto switch-off
· Automatic zero calibration for added accuracy
· Last settings memorised

SPEEDREAD>>

Some measurements take minutes using standard thermometers due to poor thermal conductivity in the item being measured. Often a highly accurate answer is not required and an indicative answer showing that the reading is above or below a desired threshold will suffice. Digitron's unique *SpeedRead>>* function will offer an answer in 14 seconds* or, if such a prediction cannot be made, revert back to the standard accuracy automatically.

**Refered to stated accuracy*

LOGGING

Models 2084T, 2086T, 2088T, 2098T of 2000 Series feature special logging functions that enable readings to be taken, stored, retrieved and downloaded quickly.

· Logging on Demand: 50 readings
· Pre-set Interval Logging: 250 readings – 1 sample for 1 min to 24 h
· Data Analysis

Access to stored information is gained via Digitron's infrared interface to PC, **DigiLink**. Within Windows™ software package, **DigiLog**, enable information to be exported into graph or schedule. Even separate reports from different units can be merged to produce one report.

TECHNICAL FEATURES AND SENSORS FOR DIGITRON THERMOMETERS

More used sensor types are available, Thermocouples, Thermoresistances Pt100 and Termistores.
Consider technical features for each model in tabel below.

FEAT. / COD.	2000T	2006T	2046T	2022T	2024T	2028T	2029T	2038T	2084T	2086T	2088T	2098T
SENSOR TYPE	K	T	Thermistor	K	Pt 100	K	KTJNRS	KTJNRS	Pt 100	T	K	KTJNRS
ON - HOLD OFF	•	•	•	•	•	•	•	•	•	•	•	•
2 SENSORS INPUTS				•				•				•
°C/°F FUNCTION				•	•	•	•	•	•		•	•
SPEEDREAD>>				•	•	•	•	•	•	•	•	•
RANGE LOCK					•	•	•	•	•		•	•
MAX / MIN				•	•	•	•	•	•		•	•
AVERAGING									•			•
LOGGING									•	•	•	•
RANGE	-40°C to +120°C -40°F to +248°F	-200°C to +1350°C -328°F to +2462°F	-250°C to +400°C -418°F to +752°F	-200°C to +1350°C -328°F to +2462°F	-150°C to +800°C -238°F to +1472°F	-200°C to +1350°C -328°F to +2462°F	-250°C to + 400°C -418°F to +752°F	-150°C to +800°C -238°F to +1472°F	-200°C to +1350°C -328°F to +2462°F	TCK -200°C to +1350°C TCT -250°C to +400°C	TCJ -250°C to +750°C TCN -200°C to +1300°C	TCR 0°C to +1750°C TCS 0°C to +1750°C

The overall performance of the instrument is obtained by combining the stated accuracy and any uncertainty due to the measurement process (cfr. accuracy tabel).
All models are also available with an IP67 rating on request. The 2006T and 2086T are available with Pt100/TCM metal screw connection.

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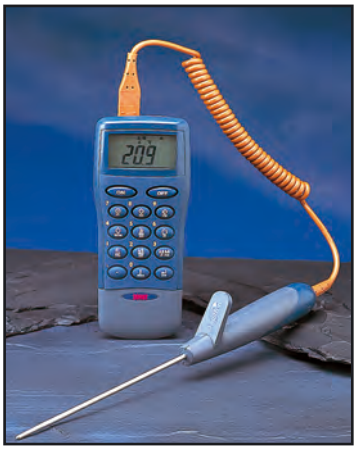
COMMON TECHNICAL FEATURES	
RESOLUTION:	0.1°C: -199.9°C to +199.9°C / -199.9°F to +392°F 1°C elsewhere
OPERATING TEMPERATURE:	-10°C to +50°C / 14°F to +122°F (ambient)
BATTERY TYPE:	2 “AA” or equivalent (not supplied)
BATTERY LIFE:	Typically 500 hours
LOW BATTERY CHECK:	Symbol appears on display
DISPLAY:	12.7mm / 0.5" custom L.C.D.
SENSOR OPEN CIRCUIT:	Indicated by 'O-C' on display
OVERRANGE/UNDERRANGE:	'Out' displayed
COLD JUNC. COMP.:	Yes
ENVIRONMENTAL:	IP65 (IP67 optional)
AUTO SWITCH-OFF TIME:	12 minutes
DIMENSIONS:	155 x 67 x 40mm / 6.1 x 2.6 x 1.6"
WEIGHT:	180gr / 6.4oz



INSTRUMENTS ACCURACY	
MODELS+ TC K	
0.1% rdg ±0.2°C/0.4°F at -100°C/-148°F	for KTJN
0.5% rdg ±0.2°C/0.4°F at -100°C/-148°F	for RS: 0.1% fs ±0.2°C
MODELS + TC T	
±0.2°C/0.4°F over range -20°C to +70°C/-4°F to +158°F ±0.1% rdg ±0.2°C/0.4°F elsewhere	
MODELS + Pt 100	
±0.2% rdg ±0.1°C/0.2°F range: -150°C to +800°C/-238°F to +1472°F	
MODELS + THERMISTOR (WITH DIGITRON PROBE)	
±0.5°C/0.9°F range -20°C to +70°C -4°C to +158°C ±0.8°C/1.4°F elsewhere	
SpeedRead>>: This function reduces the accuracy from Class 0.5 to 2 (CEN TC141/WG12 N42E applies).	

Systems accuracy: All ±1

TM-22 TERMOMETER

Low cost new thermometer

The TM-22 is a low cost differential digital thermometer specifically designed for HVAC professionals.

Manufactured from tough ABS plastic, this water-resistant instrument is supplied with a rubber boot to provide added protection during routine use. The magnetic attachment and the backlight LCD allows easing use.

- °C / °F selectable
- 2 inputs for TC K (A:B, A-B)
- Water-resistant
- Functions: On-Hold-Off, Min/Max
- Auto switch: after 12 minutes
- Battery life: 500 hours approx
- Range: -200 to +1350°C
- Accuracy: 0.01% rdg ±0.2°C
- Resolution: 0.1° range –199.9°C to +199.9°C

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