

# Handheld Digital Thermometer

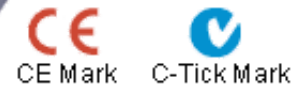
# DP-700

## Specifications

The "DP-700" pursued simpleness of measurement / management of temperature.

This product design sought a feeling of operability / visibility / fit.

Type "DP-700B/E" adopts thermal data transfer interface "USB" in consideration of affinity with a personal computer.



## ★ Specifications

<p>Input and Measuring range</p>	<p>Universal input                      Thermocouple K -200 to +1372°C (Resolution : 1°C)                      -328 to +2501°F (Resolution : 1°F)                      -199.9 to +999.9°C (Resolution : 0.1°C)                      -199.9 to +999.9°F (Resolution : 0.1°F)                      Thermocouple J -200 to +1200°C (Resolution : 1°C)                      -328 to +2192°F (Resolution : 1°F)                      -199.9 to +999.9°C (Resolution : 0.1°C)                      -199.9 to +999.9°F (Resolution : 0.1°F)                      RTD Pt100 -199.9 to +999.9°C (Resolution : 0.1°C)                      -328 to +1562°F (Resolution : 1°F)                      -199.9 to +850.0°C (Resolution : 0.1°C)                      -199.9 to +999.9°F (Resolution : 0.1°F)</p> <p>* It is connected type "6C" connector made in RKC.</p>
<p>Sampling time</p>	<p>0.5 sec.</p>
<p>Measuring accuracy</p>	<p>± (0.1% of reading + 1 digit) or ±0.3°C (Whichever is larger)                      Cold-junction temperature compensation error                      ± 0.5°C ( 5 to 40°C )                      ± 1.0°C ( -20 to 5°C, 40 to 50°C )                      Ambient temperature influence                      ± 0.01% of span /°C ( 5 to 40°C )                      ± 0.02% of span /°C ( -20 to 5°C, 40 to 50°C )</p>
<p>Display</p>	<p>Reflective FSTN LCD                      Measuring value (PV) : 4-digit, Logging (Recording) No : 4-digit,                      Total number of logging data : 4-digit, Message : 68 x 8 dots                      Logging execution : Lit during execution                      Burnout (Sensor broken) : Lit when the sensor is broken.                      Remaining battery service life : The remaining battery service life is indicated in three steps.                      Temperature unit : 12 x 8 dots ( °C / °F )</p>
<p>Data logging ( recording )</p>	<p>Recording method : Manual log mode : Can be manually recorded in the memory.                      Interval log mode : Can be automatically recorded ( in a set interval )                      Interval time : 0 ( Manual mode), 1 to 3600 sec.                      Recording items : Measured temperature, Date, Time, Tag name, User No.                      Recording capacity : DP-700A : Max. 99 logs                      DP-700B : Max. 9999 logs                      Memory backup : DP-700A : Backed up by SRAM.                      The recorded data may be lost if battery service life has expired or the battery is replaced.                      DP-700B : Backed up by EEPROM                      Number of writing : Approx. 100,000 times                      Data retaining period : Approx. 10 years</p>
<p>Temperature gradient indication</p>	<p>The evaluation points of high and low temperature are set.                      When within the evaluation points, "○" is displayed while when out of the evaluation point, "×" is displayed.</p>

Tag number function	<p>Number of maximum registration : DP-700A : 5 tags DP-700B : 99 tags</p> <p>Registration items : Tag name, evaluation points of high and low temperature.</p> <p>Tag name : 11 characters ( Numeral, Alphabets, Symbols ).</p> <p>Memory backup : Same as Memory backup of data logging</p>
User name function	<p>Any user name can be registered for each user number.</p> <p>Logging data can store into register name.</p> <p>Number of maximum registration : 99 names,</p> <p>Number of character : 11 characters ( Numeral, Alphabets, Symbols )</p> <p>Memory backup: Same as Memory backup of data logging</p>
USB function ( Only for DP-700B )	<p>Interface : USB (Universal Serial Bus) Ver2.0</p> <p>Communication speed : Full Speed compliant</p> <p>Connector type : USB series Mini-B</p> <p>Power supply : Bus power ( The power is supplied from the USB port on the PC side. )</p> <p>Device class: Mass Storage Class (Bulk-Only Transport)</p>
Waterproof and dustproof	<p>DP-700A : IP67</p> <p>DP-700B : IP54</p>
Other function	<p>Peak and bottom hold</p> <p>PV bias : -99.9 to +99.9°C ( °F )</p> <p>PV digital filter : 0 to 100 sec ( 0 : OFF )</p> <p>Calendar timer ( year, month, date, hour, minute )</p> <p>Operation lock, Self-diagnostic</p>
Power supply	<p>Type LR6 ( based on IEC and JIS ) alkaline battery, One battery</p> <p>Battery life : Approx. 400 hours ( Continuous operating time, Around the ambient temperature 23°C )</p>
Ambient temperature	-20 to +50°C
Ambient humidity	5 to 95%RH ( Absolute humidity : Max. W.C 29g/m <sup>3</sup> dry air at 101.3kPa )
Weight	Approx. 140g ( including LR6 Alkaline battery)
Accessories	LR6 ( IEC and JIS ) Alkaline battery, Strap USB cable 1m ( only DP-700B )

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