

TEMPERATURE HITESTER 3443, 3444, 3445

Environmental measuring instruments



IEC61010

Quick and Easy temperature management







ISO 9001 ISO14001 JMI-0216 JQA-E-90091

HIOKI

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and other information are available on our website

The right tool for the job. Efficient

Quickly measure and collect data

■ Ideal for daily temperature checks -- 3443 with integrated memory



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For temperature management according to ISO 14001 and energy conservation

For food temperature control (HACCP)

The 3443 has a built-in memory that can store information about measured temperature and measurement date/time in 64 channels (maximum 130 data). It is also possible to add the INTERFACE PACK 3909 later, allowing transfer of data to a computer. A dedicated software program ensures efficient management of periodic temperature measurement data.



with real-time output



Select the appropriate channel number (1 - 64) according to the measurement point. While the MEAS key is pushed, measurement is carried out. When the key is released, the unit automatically stores the measured temperature as well as the time and date of measurement.

For temperature monitoring --

 3444 is great for checking the temperature of electrical equipment while keeping a safe distance

3445 lets you perform easy spot checks to detect parts warming

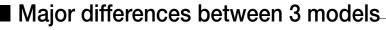
The 3444 has a long and narrow focus, whereas the 3445 features a short focus for close-range spot measurements. Using the optional INTERFACE PACK 3909, measurement data can be sent in real time to a level recorder or a computer. This is especially useful for long-term monitoring of temperature changes and for reliable detection of problem situations.

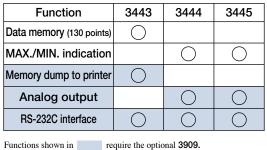


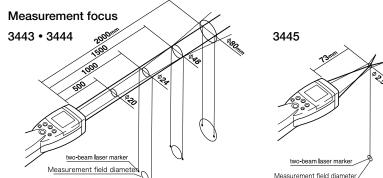




INTERFACE PACK 3909







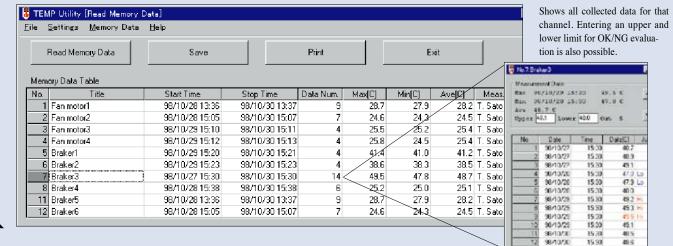
temperature control made easy.

Dedicated software (option) allows

Data analysis and management

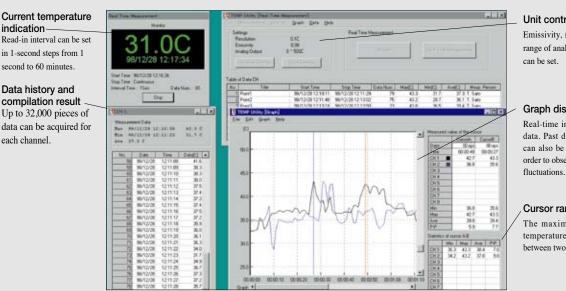
Channel (management number) table

For each channel, a title and operator name be entered. Maximum, minimum, and average values for collected temperature data can be shown.



PACK 3909

PACK 3909



Unit control settings

Emissivity, resolution, and full-scale range of analog output (3444/3445)

Graph display (time-based) Real-time indication of temperature data. Past data for up to 8 channels can also be shown as an overlay, in order to observe temperature

Cursor range statistics

The maximum/minimum/average temperature fluctuation for a range between two cursors can be measured.

■ 3909 INTERFACE PACK (optional)

Supplied with dedicated software (TEMP utility) for data analysis / management and unit control

This option is compatible with all three models (3443/3444/3445). It allows connection to a computer or to a level recorder (3444/3445 only).

■ Package contents: modular cable (50 cm), expansion box, analog output cable (open-ended, 2 m). TEMP utility (Japanese/English version, 2 3.5-in floppy disks) ■ TEMP utility specifications ● Operating system requirements: Windows 95, Windows 98 or Windows NT 4.0 *1 ● Print functions: data table or graph printout on A3, A4, B4, B5 size paper (portrait or landscape) • Other functions: file import, file save (CSV format), graph image export to word processor, simultaneous readin to spreadsheet software



Note: The connection cable (for 3909 to Computer) is not supplied. Computer (3909 output) connector: D-sub 9 pin

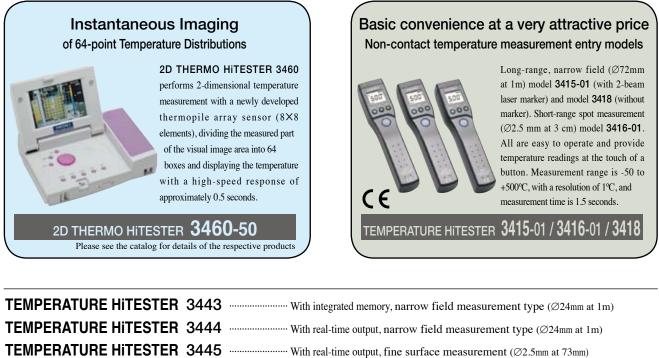
Channel detail view

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Common specifications (accuracy at 23°C ±3°C, 55% rh, with emissivity $\varepsilon = 1.0$)

●Measurement range: -50.0 to 500.0°C ●Display resolution: 0.1°C (3444/3445 switchable between 0.1°C and 1°C) ●Measurement accuracy: ±1% rdg. (200.1 to 500.0°C), ±2°C (0.0 to 200.0°C), ±10% rdg. ±2°C (-50.0 to -0.1°C) ●Repeatability: ±0.5°C (0.0 to 500.0°C), ±1.0°C (-50.0 to -0.1°C) • Response time: 1.6 seconds (95% response at 0.1°C resolution), 0.7 seconds (95% response at 1°C resolution) • Sampling rate: 0.8 seconds/measurement **•Measurement field diameter:** 3443/3444, Ø24 mm at 1 m; 3445, Ø2.5 mm at 73mm **•Detector** element: thermopile Optical lens: silicon OMeasurement wavelength: 8 to 16 µm OTargeting: two-beam laser marker class 2 **•**Emissivity correction: $\varepsilon = 0.10$ to 1.00 (0.01 steps) **•**Ancillary functions: auto power save (15 seconds, can be canceled); low battery warning, measurement value auto-hold (3443 only), data memory (130 points, 3443 only), data memory dump to printer (3443 only; requires 3909), MAX //MIN. display (3444/3445 only), analog output (3444/3445 only; requires 3909), RS-232C output (requires 3909) •Ambient conditions for use: 0 to 40°C, 35 to 85% rh (no condensation) •Ambient conditions for storage: -20 to 55°C (no condensation) •Compatible standards:EMC EN61326-1:1997+A1:1998, external protection EN60529:1991 [IP54] **•Power source:** layer 6F22 manganese battery X 1 or AC adapter **Current consumption:** max. 252 mVA (light on), max. 90mVA (light off) **Continuous operating time:** max. 20 hours (light on), max. 50 hours (light off) ●Dimensions and mass: approx. 47 W × 200 H × 48 D mm, approx. 280 g (including battery) •Accessories: CARRYING CASE, HAND STRAP, screwdriver for battery compartment cover

Related Products -



(All include CARRYING CASE, HAND STRAP)



Warning on use of laser products The 3443/3444/3445 is labeled as shown above. Follow the warnings on the label when operating.



HEAD OFFICE :

81 Koizumi, Ueda, Nagano, 386-1192, Japan TEL +81-268-28-0562 / FAX +81-268-28-0568 E-mail: os-com@hioki.co.jp

HIOKI USA CORPORATION :

6 Corporate Drive, Cranbury, NJ 08512 USA TEL +1-609-409-9109 / FAX +1-609-409-9108 E-mail: hioki@hiokiusa.com

Options

INTERFACE PACK 3909

RS-232C CABLE 9637 (Dsub 9 pin-Dsub 9 pin, cross, 1.8 m) AC ADAPTER (3909 required)

BLACK BODY TAPE (50mm × 10m, 1 roll) Withstands 180°C BLACK BODY SPRAY (180ml) Withstands 550°C

* Used for accurate determination of the temperature of a gloss metal object of low emissivity (ɛ), or for determining the emissivity. The thermal emissivity is the ratio between the amount of energy (the theoretical maximum) which would be emitted by a black $body(\epsilon=1)$ at the same temperature.

HIOKI (Shanghai) Sales & Trading Co., Ltd. : 1904 Shanghai Times Square Office, 93 Huai Hai Zhong Road Shanghai Tene Square Office, 93 Huai Hai Zhong Road Shanghai, P.R.China POSTCODE: 200021 TEL +86-21-6391-0090/0092 FAX +86-21-6391-0360

E-mail: info-sh@hioki.cn

Beiiing Office : A-2602 Freetown, 58 Dong San Huan Nan Road Beijing, P.R.China POSTCODE: 100022 TEL +86-10-5867-4080/4081 FAX +86-10-5867-4090 E-mail: info-bj@hioki.cn

CARRYING CASE

Guangzhou Office : Room 303, Profit Plaza, No.76, West Huangpu Road Guangzhou, P.R.China POSTCODE: 510623 TEL +86-20-38392673/2676 FAX +86-20-38392679 E-mail: info-gz@hioki.cr



Venta de Instrumentos de Prueba y Medición www.finaltest.com.mx Calle del Ebano #16625 Tijuana B.C. Mexico

Tél. (664)681-1130 Tel. 01800 027-4848 ventas@final-test.net

