

TEMPERATURE HiTESTER 3441,3442

Environmental Measuring Instruments



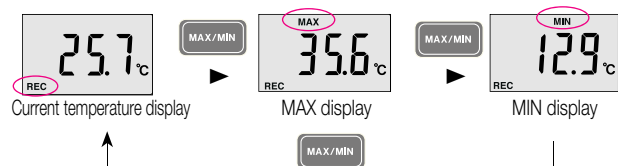
Supports temperature management needs of various applications



■ 3441/3442 Extended Operation, Max/Min Temperature Recording, Water-resistant Construction (3442 only)

- The **3442** has a water-resistant construction.
- Measurement in damp environments is possible by using the thermometer in combination with the **9472** or **9475** temperature probe. (-100°C to 1300°C)*
- Choose from 9 different temperature probes (optional), according to your application.

- Recording of maximum temperature and minimum temperature



The **3441** and **3442** support temperature management by recording maximum and minimum temperatures in memory. By pressing the MAX/MIN key, you can switch to display of the current maximum and minimum temperatures at any time.

* Measurable temperature range varies according to temperature sensor type.



www.hioki.com



3441/3442 Specifications (accuracy at 23°C ±5°C, 80% rh or less)

Measurement sensor : Type K thermocouple
 Measurement range : -100°C to 1300°C (-148°F to 2372°F)
 Resolution : 0.1°C (100.0 to 199.9°C), 1°C (200 to 1300°C)/
 0.1°F (-148°F to 392°F), 1°F (393°F to 2372°F)
 Accuracy : ±0.1% rdg. ±0.8°C (from -100.0 to 199.9°C)/
 (Period of Guaranteed ±0.1% rdg. ±1.5°F (-148°F to 392°F)
 Accuracy:6 months) ±0.2% rdg. ±1°C (from 200 to 1300°C)/
 ±0.2% rdg. ±1.8°F (393°F to 2372°F)
 (Accuracy of temperature sensor is added.)
 Temperature coefficient : 0.03°C/C (from -100.0 to 199.9°C) / 0.054°F/F (-148°F to 392°F)
 0.05°C/C (from 200 to 1300°C) / 0.09°F/F (393°F to 2372°F)
 Sampling rate : 2 / second
 Display : LCD display
 Reference contact compensation : Automatic
 Functions : Max/Min temperature recording and display, display data hold, sensor
 discontinuity display (---), over-range display (O.F. - O.F), auto power
 save (operates after 30 min, can be disabled), low battery warning

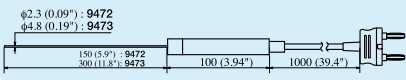
Operating environment : Indoors, at altitude up to 2000 m
 Ambient conditions : for use: 0 to 40°C (32°F to 104°F), 80% rh or less (non-condensating)
 for storage: -10 to 50°C (14°F to 122°F), 80% rh or less (non-condensating)
 Applicable standards : Safety, EN61010, Measurement category I,
 Pollution level 2/EMC, EN61326
 Water resistance: IP54 (EN60529)
 Power supply : 4 R6P manganese dry cell batteries or 4 LR6 alkaline
 batteries (AAA)
 Maximum rated power : 35 mVA
 Continuous operating : 200 hours or more (using manganese batteries)
 time
 Dimensions/mas : Approx. 74(W) × 155(H) × 24(D) mm (2.6 × 5.9 × 0.95
 in), approx. 160g (5.6 oz) (not including batteries or probe)
 Accessories : Batteries, strap band

Choose from a wide range of temperature sensors for various applications (optional)

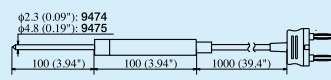
unit=mm (inch)

TEMPERATURE PROBE for 3441 / 3442 ●:water-resistant structure

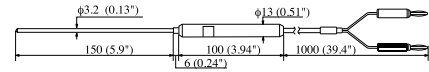
9472 / 9473 SHEATH TYPE



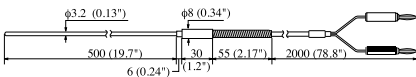
9474 / 9475 SHEATH TYPE



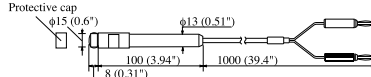
9180 / 9183 SHEATH TYPE



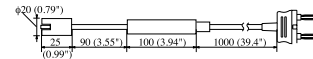
9182 SHEATH TYPE



9181 SURFACE TYPE



9476 SURFACE TYPE



| Item | water-resistant structure | | | | | | | | |
|-----------------------|---|----------------------------|--------------------------------|--------------------------------|-------------------------------|---------------------------------|------------------------------|------------------------------|-------------------------------|
| | 9472 | 9473 | 9474 | 9475 | 9183 | 9180 | 9476 | 9181 | 9182 |
| Thermocouple material | K type (Chromel/Almel) | | | | | | | | |
| Tolerance | The greater of ±1.5°C(2.7°F) or ±0.4% of measured temperature | | | | | The greater of ±2.5°C(4.5°F) *1 | | | |
| Response (90%)* | About 5 sec | About 10 sec | About 5 sec | About 10 sec | About 5 sec | | About 3 sec | | |
| Size of Sheath | φ2.3×150mm | φ4.8×300mm | φ2.3×100mm | φ4.8×100mm | φ3.2×150 mm | | φ20 mm | φ15 mm | φ3.2×500mm |
| Cable | General use (-20°C to 90°C, -4°F to 194°F) 1 m (0°C~150°C) 2m | | | | | | | | |
| Grip heat resistance | 80°C | | | | 150°C | | 80°C | 150°C | 90°C |
| Max use temperature | -100 to 300°C -148 to 572°F | 0 to 800°C 32 to 1472°F | -100 to 300°C -148 to 572°F | -100 to 500°C -148 to 932°F | -50 to 750°C -58 to 1382°F | | -40 to 500°C -40 to 932°F | -50 to 400°C -58 to 752°F | -50 to 750°C -58 to 1382°F |

* Sheath type: Responsiveness in ice water at 0°C (32°F) and in boiling water at 100°C(212°F)
 Surface type: Responsiveness on a metal surface at 0°C (32°F) and at 100°C(212°F)

*1 9180, 9182: The greater of ±2.5°C(4.5°F) or ±0.75% of measured temperature
 9476: (-0.03 ×T)°C to + 2.5°C at 100°C<(T-Ts)
 9181: (-0.035×T)°C to + 2.5°C at 100°C<(T-Ts)
 T: measured temperature, Ts: environmental temperature

TEMPERATURE HiTESTER 3441 (°C only)
TEMPERATURE HiTESTER 3441-02 (°C/°F selectable)
TEMPERATURE HiTESTER 3442 (°C only)

Options for 3441(-02), 3442

| | | | |
|--------------------------------|------|--------------------------------|---------|
| SHEATH TYPE TEMPERATURE PROBE | 9180 | SHEATH TYPE TEMPERATURE PROBE | 9472 |
| SURFACE TYPE TEMPERATURE PROBE | 9181 | SHEATH TYPE TEMPERATURE PROBE | 9473 |
| SHEATH TYPE TEMPERATURE PROBE | 9182 | SHEATH TYPE TEMPERATURE PROBE | 9474 |
| SHEATH TYPE TEMPERATURE PROBE | 9183 | SHEATH TYPE TEMPERATURE PROBE | 9475 |
| | | SURFACE TYPE TEMPERATURE PROBE | 9476 |
| | | CARRYING CASE | 9386-01 |

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