

TEMPERATURE HiTESTER 3441,3442

Environmental Measuring Instruments



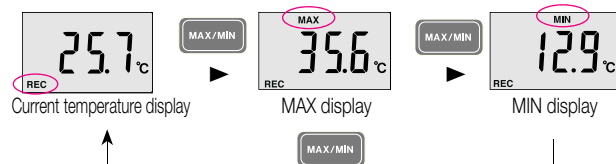
Supports temperature management needs of various applications



■ 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

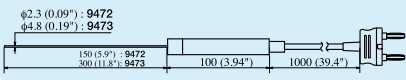
Operating environment : Indoors, at altitude up to 2000 m
 Ambient conditions : for use: 0 to 40°C (32°F to 104°F), 80% rh or less (non-condensating)
 for storage: -10 to 50°C (14°F to 122°F), 80% rh or less (non-condensating)
 Applicable standards : Safety, EN61010, Measurement category I,
 Pollution 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)

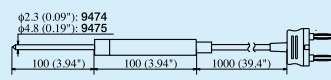
unit=mm (inch)

TEMPERATURE PROBE for 3441 / 3442 :water-resistant structure

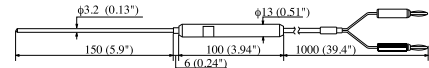
9472 / 9473 SHEATH TYPE



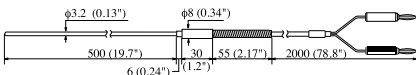
9474 / 9475 SHEATH TYPE



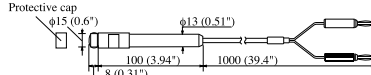
9180 / 9183 SHEATH TYPE



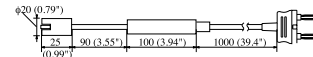
9182 SHEATH TYPE



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
SHEATH 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
SHEATH TYPE TEMPERATURE PROBE	9180	SURFACE TYPE TEMPERATURE PROBE	9476
SHEATH TYPE TEMPERATURE PROBE	9181	CARRYING CASE	9386-01

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