

## 3412·3412-50·3414 TEMPERATURE Hi TESTER



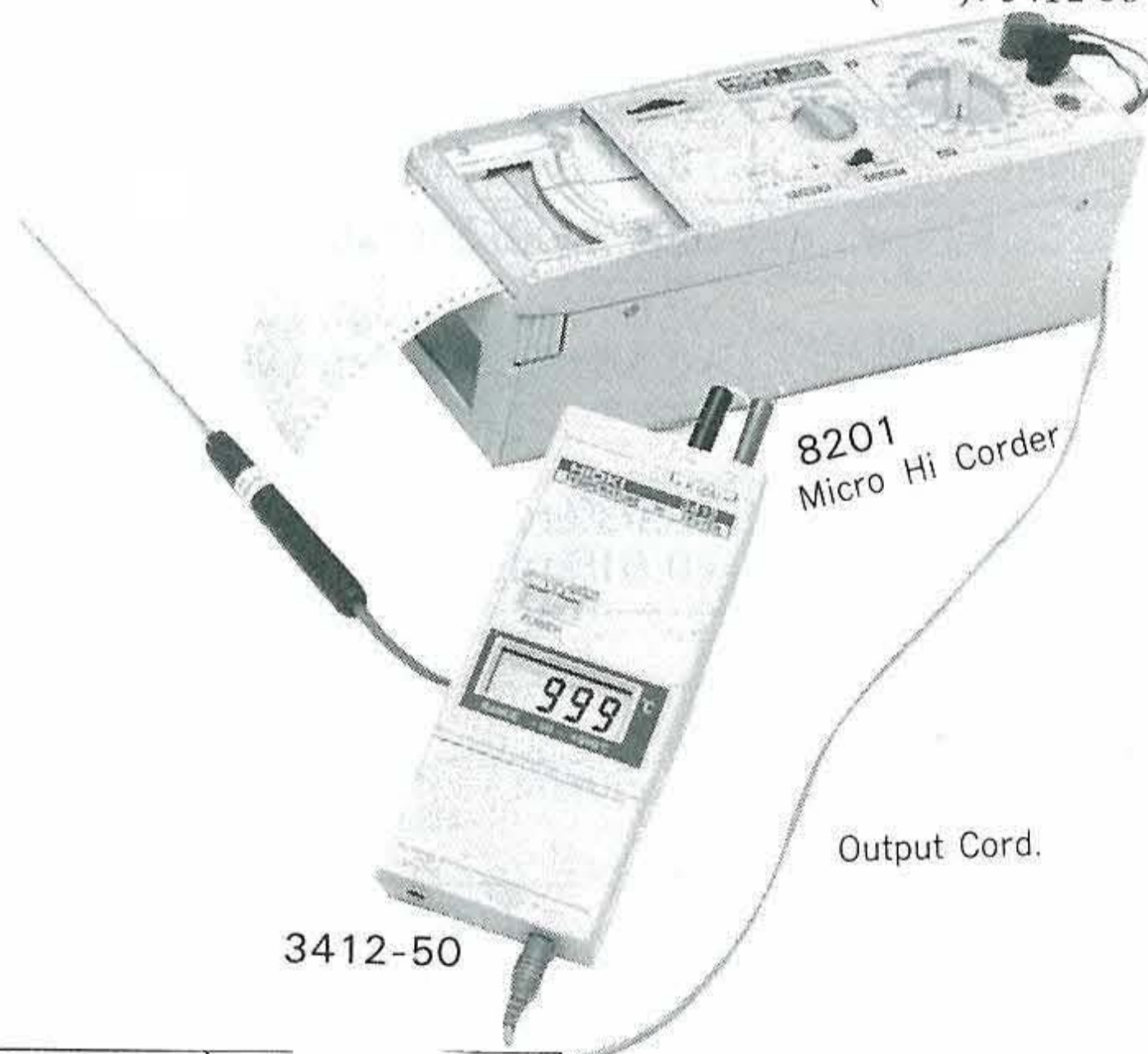
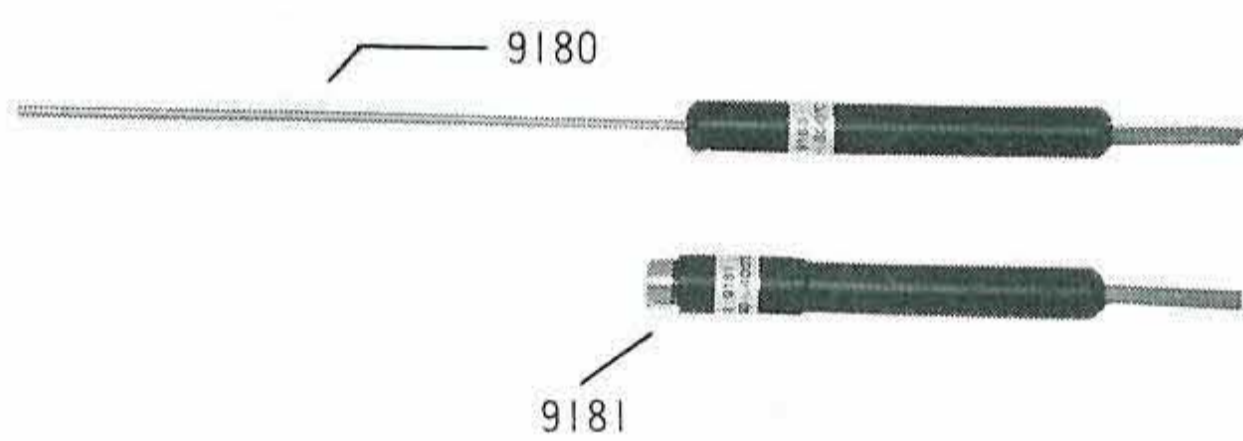
The Models 3412·3412-50 and 3414 are a portable type digital temperature meter designed for simple measurement of temperatures. Four types of probes are available for use depending on the application; three sheath type probes for normal measurements, and a surface type probe for surface temperature measurements. These instruments are suitable for use in maintenance and heated storage systems.

The 3412-50 produces a 1mV voltage for each degree (Celsius) from its analog output terminal. Used in combination with a recorder, it is ideal for monitoring and recording temperatures.

### ■ SPECIFICATIONS

Item	3412	3412-50	3414
Measurement Range	-50 to 999°C		-50 to 199.9°C
Resolution	1°C		0.1°C
Measurement Sensor	Thermocouple, K type (CR/AL)		
Input Resistance	1MΩ	> 2MΩ	1MΩ
Reference Junction Compensation	Automatic, by diode		
Display	999 (3-digit) LCD		1999 (3½-digit) LCD
Overrange	"OVER"		1□□.□
Burnout	"-2□□" or (OVER)		-1□□.□
Low Battery	"-3□□"		"BATT"
Accuracy	±(0.2% of f.s. + 1 dgt.)		±(0.3% rdg. + 0.5% of f.s.)
Output	1mV/°C		
Output Resistance	10Ω >		
Output Coefficient	±0.25% of f.s.		
Temp. Coefficient	0.1 dgt/°C		0.5 dgt/°C
Sample Rate	Approx. 1.25s/sample		
Operating Temp./Humidity	0 ~ 50°C / < 80% RH		
Storage Temp.	-10 to 50°C		
Power Supply	006P (1)		
Continuous use	100 hr.	25 hr.	80 hr.
Dimensions	125H (173H) × 75W × 24D mm · 170g (220g)		
Accessories	Soft case, 006p battery		

( ) : 3412-50



### ■ SPECIFICATIONS

	9180	9181	9182	9183
Sensor Type	Sheath	Surface	Sheath	Sheath
Temperature Range	-50 ~ 800°C	-50 ~ 400°C	-50 ~ 1000°C	-50 ~ 800°C
Thermocouple Material	K type (Chromel/Alumel)			
Accuracy	±2.5°C or 0.75%, whichever is greater			±1.5°C or 0.4%, whichever is greater
Compensation Lead	Conventional type (-20 ~ 90°C)	Heat-proof type (-20 ~ 150°C)	Conventional type (-20 ~ 90°C)	Conventional type (-20 ~ 90°C)
Lead Length	1m (approx.)	2m (approx.)	1m (approx.)	1m (approx.)
Allowable Heat (Handle)	150°C	-	150°C	150°C
Size Sensor	φ3.2 × 150mm	φ1.5 × 8mm	φ3.2 × 500mm	φ3.2 × 150mm

### Ordering Information

- 3412, 3412-50 Main unit
- 3412-01, 3412-51 With 9180
- 3412-02, 3412-52 With 9181
- 3412-03, 3412-53 With 9180 and 9181
- 3414 Main unit
- 3414-01 With 9183

### Optional Accessories

- 9094 Output Cord
- 9180 Sheath Type Temperature Probe
- 9181 Surface Type Temperature Probe
- 9182 Sheath Type Temperature Probe
- 9183 Sheath Type Temperature Probe

## 9020 TEMPERATURE ADAPTER



### ■ SPECIFICATIONS

Measurement Range:	-50°C to 250°C (1mV/°C)
Accuracy:	(±0.5 ±0.005t)°C
Sensor:	Platinum resistance (1,000Ω at 0°C), sheath type, φ2.3 x 50mm
Power Supply:	006P (continuous use 80 hr.)
Dimensions:	71H x 48W x 22D mm 140g

## 9021-01·9029 THERMISTER TEMPERATURE PROBE



### Compatible Models

- 9021-01: 3000, 3007, 3015, 3021, 3100, 3104
- 9029: 3261, 3262
- -50°C to 200°C can be obtained (9029: -50°C to 150°C)