

# FORK CURRENT TESTER



( Actual Size )

CE  $\phi$  10 AC / DC 0.1 to 100.0A

**Capable of measuring AC and DC current up to 100A  
with the newly developed open current tester**

- True RMS reading is an essential feature for accurate measurement (see rear page).
- " Non Contact " voltage function indicates the presence of AC voltage by warning the user with an audible signal.
- Set the DC current range to zero in one touch with the Zero Adjust function
- Auto Power Off
- Data Hold (AC A / DC A only)
- Designed to international safety standard IEC61010-1 CAT. III 300V

KEW FORK 2300R can be used in crowded connection boxes, where cables are very short,  
and space is too limited to clamp cables using with a traditional clamp meter.

**KEW FORK**  
**MODEL 2300R**

## ● Instrument Layout



## ● True RMS (Root Mean Square value) Measurement



When load current is not affected by the distortion, both averaging value type and true RMS (root mean square) type clamp meters show the almost same value of about 10A with constant wave-form as the above display samples. However, when load current is affected by some distortions such as inverter, etc..., averaging value type clamp meter indicates 5.5A instead of 9.7A and true RMS type clamp meter indicates 7.9A instead of 9.7A with irregular wave-form. Accordingly, true RMS type clamp meter is recommendable for the measurement of the equipment with inverter control devices.

## ● Specifications

Range	Measuring Range	Accuracy
Current Measurement	AC A 0 to 100.0A	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt} (50/60\text{Hz})$
	DC A 0 to $\pm 100.0\text{A}$	$\pm 2.0\% \text{rdg} \pm 5 \text{dgt}$
Conductor Size	Max $\varnothing 10\text{mm}$	
Non Contact Voltage	Detect AC voltage without contacting with socket wire	During voltage detection, "Hi" flashes and a buzzer sounds intermittently
Dimensions	161.3(L) $\times$ 40.2(W) $\times$ 30.3(D)	
Crest Factor	2.5	
Weight	110g (with batteries)	
Maximum Digit	1,049	
Safety Standard	IEC 61010-1 CAT. III 300V; Pollution Degree 2	
Power Source	R03 (AAA) $\times$ 2	
Accessories	Instruction Manual, R03 (AAA) $\times$ 2, Carrying Case	

Due to the use of thyristors, inverters and other energy-saving controllers in recent electric wiring, current waveforms often include harmonic components and are distorted compared to sinusoidal waves (50/60Hz).

The Kyoritsu True RMS value tester is able to measure distorted waveforms using true RMS since waveforms are being internally calculated continuously. In contrast, when measurements are made with an averaging value tester, errors are generated in the measurement value because the tester cannot continuously track distorted waveforms.

(Compared to the true RMS value tester, measurement values for the averaging value generate more than 30% errors in some cases.)

### Crest Factor

The ratio of peak value to root mean square value, expressing the dynamic range. The crest factor on an undistorted sinusoidal wave is 1.41. Any value outside of this means that the waveform is considered to be distorted.

**! Safety Warnings :** Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.



Cosinus Messtechnik GmbH  
 Rotwandweg 4  
 D-82024 Taufkirchen  
 Tel 089-665594-0  
 Fax 089-665594-30  
 e-Mail: office@cosinus.de  
 Internet: www.cosinus.de