Quality and reliability is our tradition

KYORITSU®

ISO 9001 : 2000 , BS EN 9001
APPROVED BY BVQI

Line up of Clamp Sensor Series

Load current detection type clamp sensors provide superior characteristic in phase for the use of power meter

	MODEL 8127	MODEL 8126	MODEL 8125	MODEL 8124
				
	CE AC 100A ϕ24 IEC61010	CE AC 200A ϕ40 IEC61010	CE AC 500A ϕ40 IEC61010	CE AC1000A ϕ68 IEC61010
Conductor size	ϕ24	ϕ40	ϕ40	ϕ68
Rated current	AC 100A	AC 200A	AC 500A	AC 1000A
Output voltage	AC 500mV/100A (AC 5mV/A)	AC 500mV/200A (AC 2.5mV/A)	AC 500mV/500A (AC 1mV/A)	AC 500mV/1000A (AC 0.5mV/A)
Accuracy	±0.5%rdg±0.1mV (50/60Hz) ±1.0%rdg±0.2mV (40Hz~1kHz)			
Phase Shift	within ±2.0° (45~65Hz)	within ±1.0° (45~65Hz)		
Withstand voltage	AC3540V for 5 seconds	AC5350V for 5 seconds	AC5350V for 5 seconds	AC5350V for 5 seconds
Cable length : Output connector	Approx. 3m : MINI DIN 6pin			
Operating temperature ranges	-0~50℃, less than 85% RH (without condensation)			
Output impedance	Approx. 10Ω	Approx. 5Ω	Approx. 2Ω	Approx. 1Ω
Applicable standards	IEC 61010-1 : 2002,IEC 61010-2-032 : 2002 CAT.Ⅲ 300V pollution degree 2	IEC 61010-1 : 2002, IEC 61010-2-032 : 2002 CAT.Ⅲ 600V pollution degree 2		
Dimensions	100(L)×60(W)×26(D)mm	128(L)×81(W)×36(D)mm	128(L)×81(W)×36(D)mm	186(L)×129(W)×53(D)mm
Weight	Approx. 160g	Approx. 260g	Approx. 260g	Approx. 510g
Accessories	9095 (Portable case) Instruction manual Cable marker			9094 (Portable case) Instruction manual Cable marker
Options	7146 (Banana ϕ4 adjuster plug) 7185 (Extension cable)			

Newly launch 5 Ampere clamp sensor model 8128. High efficiency on the test terminal in power distribution facilities

MODEL 8128

CE AC 5A ϕ24 IEC61010

Conductor size	ϕ24
Rated current	AC 5A (Max.50A)
Output voltage	AC 50mV/5A[Max. 500mV/50A](AC 10mV/A)
Accuracy	±0.5%rdg±0.1mV (50/60Hz) ±1.0%rdg±0.2mV (40Hz~1kHz)
Phase Shift	within ±2.0° (45~65Hz)
Withstand voltage	AC3540V for 5 seconds
Cable length : Output connector	Approx. 3m : MINI DIN 6pin
Operating temperature ranges	-0~50℃, less than 85% RH (without condensation)
Output impedance	Approx. 20Ω
Applicable standards	IEC 61010-1 : 2002, IEC 61010-2-032 : 2002 CAT.Ⅲ 300V pollution degree 2
Dimensions	100(L)×60(W)×26(D)mm
Weight	Approx. 160g
Accessories	9095 (Portable case) Instruction manual Cable marker
Options	7146 (Banana ϕ4 adjuster plug) 7185 (Extension cable)

In order to monitor energy saving and to control the electric facilities, it is essential and imperative to control the leak and load currents from mains and branch power lines up to the equipment. Clamp sensor is easy to carry and simple to install.

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Leakage current & Load current detection types

	KEW 8146	KEW 8147	KEW 8148
			
	CE AC 30A ϕ24 IEC61010	CE AC 70A ϕ40 IEC61010	CE AC 100A ϕ68 IEC61010
Conductor size	ϕ24	ϕ40	ϕ68
Rated current	AC 30A	AC 70A	AC 100A
Output voltage	AC 1500mV/30A (AC 50mV/A)	AC 3500mV/70A (AC 50mV/A)	AC 5000mV/100A (AC 50mV/A)
Accuracy	0~15A ±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.2mV (40Hz~1kHz) 15~30A ±5.0%rdg (50/60Hz) ±10.0%rdg (45Hz~1kHz)	0~40A ±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.2mV (40Hz~1kHz) 40~70A ±5.0%rdg (50/60Hz) ±10.0%rdg (45Hz~1kHz)	0~80A ±1.0%rdg±0.1mV (50/60Hz) ±2.0%rdg±0.2mV (40Hz~1kHz) 80~100A ±5.0%rdg (50/60Hz) ±10.0%rdg (45Hz~1kHz)
Phase Shift	—		
Withstand voltage	AC3540V for 5 seconds		
Cable length : Output connector	Approx. 2m : MINI DIN 6pin		
Operating temperature ranges	-0~50°C, less than 85% RH (without condensation)		
Output impedance	Approx. 90Ω	Approx. 100Ω	Approx. 60Ω
Applicable standards	IEC 61010-1 : 2002, IEC 61010-2-032 : 2002 CAT.Ⅲ 300V pollution degree 2		
Dimensions	100(L)×60(W)×26(D)mm	128(L)×81(W)×36(D)mm	186(L)×129(W)×53(D)mm
Weight	Approx. 150g	Approx. 240g	Approx. 510g
Accessories	9095 (Portable case) Instruction manual Cable marker		9094 (Portable case) Instruction manual Cable marker
Options	7146 (Banana ϕ4 adjuster plug) 7185 (Extension cable)		

Load current detection types

	KEW 8121	KEW 8122	KEW 8123
			
	CE AC 100A ϕ24 IEC61010	CE AC 500A ϕ40 IEC61010	CE AC1000A ϕ55 IEC61010
Conductor size	ϕ24	ϕ40	ϕ55
Rated current	AC 100A	AC 500A	AC 1000A
Output voltage	AC 500mV/100A (AC 5mV/A)	AC 500mV/500A (AC 1mV/A)	AC 500mV/1000A (AC 0.5mV/A)
Accuracy	±2.0%rdg±0.3mV (50/60Hz) ±3.0%rdg±0.5mV (40Hz~1kHz)		
Phase Shift	—		
Withstand voltage	AC3540V for 5 seconds	AC5350V for 5 seconds	AC5350V for 5 seconds
Cable length : Output connector	Approx. 2m : MINI DIN 6pin		
Operating temperature ranges	-0~40°C, less than 85% RH (without condensation)		
Output impedance	Approx. 9.5Ω	Approx. 1.9Ω	Approx. 1.5Ω
Applicable standards	IEC 61010-1 : 2002, IEC 61010-2-032 : 2002 CAT.Ⅲ 300V pollution degree 2	IEC 61010-1 : 2002, IEC 61010-2-032 : 2002 CAT.Ⅲ 600V pollution degree 2	
Dimensions	100(L)×60(W)×26(D)mm	128(L)×81(W)×36(D)mm	170(L)×105(W)×48(D)mm
Options	7146 (Banana ϕ4 adjuster plug) 7185 (Extension cable)		

Leakage current detection types

MODEL 8141

CE AC1000mA ϕ24 IEC61010

MODEL 8142

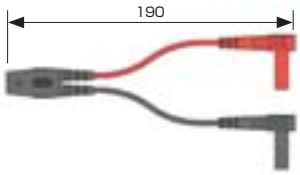
CE AC1000mA ϕ40 IEC61010

MODEL 8143

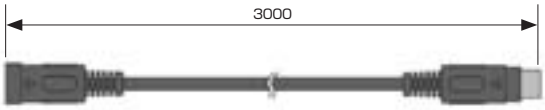
CE AC1000mA ϕ68 IEC61010

Conductor size	ϕ24mm	ϕ40mm	ϕ68mm
Rated current	AC 1000mA	AC 1000mA	AC 1000mA
Output voltage	AC 100mV/1000mA(AC 100mV/A)		
Accuracy	±1.0%rdg±0.1mV(50/60Hz) ±2.0%rdg±0.1mV(40Hz~1kHz)		
Phase Shift	—		
Withstand voltage	AC3540V(50/60Hz) for 5 seconds		
Cable length : Output connector	Approx. 2m : MINI DIN 6pin		
Operating temperature ranges	-0~50℃, less than 85% RH (without condensation)		
Output impedance	Approx. 180Ω	Approx. 200Ω	Approx. 120Ω
Applicable standards	IEC 61010-1, IEC 61010-2-032 CAT.Ⅲ 300V pollution degree 2		
Dimensions	100(L)×60(W)×26(D) mm	128(L)×81(W)×36(D) mm	186(L)×129(W)×53(D) mm
Weight	Approx. 150g	Approx. 240g	Approx. 490g
Accessories	9095(Portable case) Instruction manual		9094(Portable case) Instruction manual
Options	7146(Banana ϕ4 adjuster plug) 7185(Extension cable)		

● Options



MODEL 7146



MODEL 7185

● Overall diameter

Overall Diameter (mm)	Ⅳ 600V Single Core	SV(VVR) 600V Three Cores	CV(CE) 600V Single Core	CV(CE) 600V Three Cores	CVT 600V Three Cores	CV(CE) 3300V Single Core	CV(CE) 3300V Three Cores	CV(CE) 6600V Single Core	CV(CE) 6600V Three Cores
8	6.0	18.4	8.6	16.0	—	13.5	24	16.5	32
14	7.6	19.9	9.5	17.5	21.0	14.0	26	17.5	34
22	9.2	23.5	11.0	21.0	24.0	15.5	29	18.5	37
30	10.1	25.7	12.0	24.0	—	16.0	31	19.5	39
38	11.4	28.7	13.0	25.0	28.0	17.5	33	21.0	41
50	12.6	31.5	15.0	30.0	—	19.5	38	22.0	44
60	13.6	34.8	16.0	31.0	33.0	21.0	40	23.0	46
80	15.5	38.3	17.0	35.0	—	22.0	43	25.0	49
100	17.0	41.9	20.0	40.0	41.0	24.0	46	26.0	52
125	18.9	46.4	21.0	43.0	—	25.0	50	28.0	55
150	20.5	50.1	23.0	46.0	47.0	27.0	53	29.0	58
200	23.0	56.6	26.0	54.0	55.0	30.0	60	32.0	60
250	25.5	62.0	28.0	59.0	60.0	32.0	65	35.0	70
325	28.6	69.2	32.0	65.0	66.0	35.0	71	38.0	77
400	31.3	—	34.0	72.0	72.0	39.0	—	—	—
500	34.4	—	38.0	81.0	80.0	42.0	—	—	—

● Measurement categories

To ensure safe operation of measuring instruments, IEC61010-1 establishes safety standards for various electrical environments, categorized as CAT. Ⅰ to CAT. Ⅳ, and called measurement categories. Higher-numbered categories correspond to electrical environments with greater transient energy (that can be very dangerous), so a measuring instrument designed for CAT. Ⅳ environments can endure greater transient energy than one designed for CAT. Ⅲ or lower.

CAT. Ⅰ : Secondary electrical circuits connected to an outlet through a transformer or similar device. Secondary electrical circuit parts inside equipments like TVs, PCs, Copiers, etc.

CAT. Ⅱ : Primary electrical circuits or equipments connected to an outlet by a power cord. Outlets at more than 10 meters from CAT. Ⅲ source, or at more than 20 meters from CAT. Ⅳ source.

CAT. Ⅲ : Primary electrical circuits of the equipment connected directly to the distribution panel. Switchboards, busbars and feeders from the distribution panel to outlets.

CAT. Ⅳ : The circuit from the service drop to the service entrance, and to the power meter and primary over current protection device (distribution panel). Circuits close to the secondary side of low voltage power transformer.