

UNIVERSAL CLAMP ON CT 9277 to 9279

DC to 100 kHz (9277/9278)

When used together with the 9555-10 SENSOR UNIT, current waveforms can be observed from DC to 100 kHz (Models 9277/9278). Controlled zero drift allows for stable, long-duration measurements.



The probe cannot be used alone: the 9555-10 is required.



■ 9277 to 9279 Specifications

	9277	9278	9279
Rated current (AC/DC)	20 A	200 A	500 A
Output voltage (AC/DC)	2 V f.s.		
Accuracy (23 ± 3°C) [73 ± 5°F] DC and 45Hz to 66Hz	After demagnetization and at least 30 min. warm-up Amplitude: ±0.5% rdg. ±0.05% f.s. Phase: within ±0.2° (DC has no provision)		
Frequency characteristics (amplitude) (deviation from accuracy)	DC to 1 kHz : within ±1.0% 1 k to 50 kHz : within ±2.5% 50 k to 100 kHz : within ±5%		DC to 1 kHz: within ±1.0% 1 k to 10 kHz: within ±2.5% 10 k to 20 kHz: within ±5%
Frequency characteristics (phase) (DC has no provision)	DC to 1 kHz : within ±0.5° 1 k to 50 kHz : within ±2.5° 50 k to 100 kHz : within ±5.0°		DC to 1 kHz: within ±0.5° 1 k to 10 kHz: within ±2.5° 10 k to 20 kHz: within ±5.0°
Output resistance	50Ω		
Input resistance(DC)	0.05 mΩ or less	0.002 mΩ or less	0.001 mΩ or less
The maximum permissible input range(DC to 3kHz)*1	50 Arms (75 Apeak)	350 Arms (500 Apeak)	650 Arms (920 Apeak)
Temperature characteristics (0 to 40°C)	Sensitivity: within ±0.05% rdg./°C Offset: within ±0.005% f.s./°C		
Operating temperature and humidity	0 to 40°C [32 to 104°F] , 80% RH or less (no condensation)		
Effect of external magnetic fields*2	Max. 0.2 A	Max. 1 A	Max. 2 A
Influence of conductor position	within ±0.5% (DC, 55 Hz)	within ±1.5% (DC, 55 Hz)	
Withstand voltage	2200 V AC for 1 minute (electrical circuits to case, electrical circuits to core)		
Insulation resistance	At least 100 MΩ at 500V DC (electrical circuits to case, electrical circuits to core)		
Max. rated voltage to earth	600 Vrms (850 Vpeak) insulated wire		
Measurement conductor	Diameter max. 20 mm [0.79"]		Diameter max. 40 mm [1.57"]
Cable length	Approx. 1.5m [59.06"]		
Power supply voltage	±12 V to ±15 V		
Power consumption	3.6 W max.	7.2 W max.	
Dimensions and mass	Approx. 176(W)×63(H)×34(D) mm; 430 g [6.92"(W)×2.48"(H)×1.34"(D), 15.2 oz.]		Approx. 220(W)×103(H)×43.5(D) mm; 860 g [8.66"(W)×4.06"(H)×1.71"(D), 30.3 oz.]
Supplied accessories	Carrying case 9375		

*1 Maximum non-destructive input above 3 kHz is specified separately.

*2 DC and 55 Hz, Magnetic field of 400A/m.

■ 9555-10 Specifications

Output voltage	: ±12 V ±0.5 V, ±0.5 A Max.
Rated voltage	: ±10 V to +30 V (The supplied AC ADAPTER supplies +12 V.)
Operating temperature and humidity	: 0 to 40°C [32 to 104°F] , 80% RH max. (no condensation)
Storage temperature and humidity	: -10 to 50°C [14 to 122°F] , 80% RH max. (no condensation)
Max. rated power	: 20 VA
Output terminal	: BNC terminal Accuracy and other characteristics depend on the connected sensor.
Dimensions and mass	: Approx. 42(W)×82(H)×132(D) mm, 600g [1.65"(W)×3.24"(H)×5.20"(D), 21.2 oz.]
Accessories	: AC ADAPTER 9418-15 (with a power cord) Rated supply voltage : AC100 to 240V Rated supply frequency : 50/ 60 Hz Rated output voltage : DC 12 V

CLAMP ON SENSOR 9272-10

1Hz to 100kHz



SENSOR UNIT 9555-10



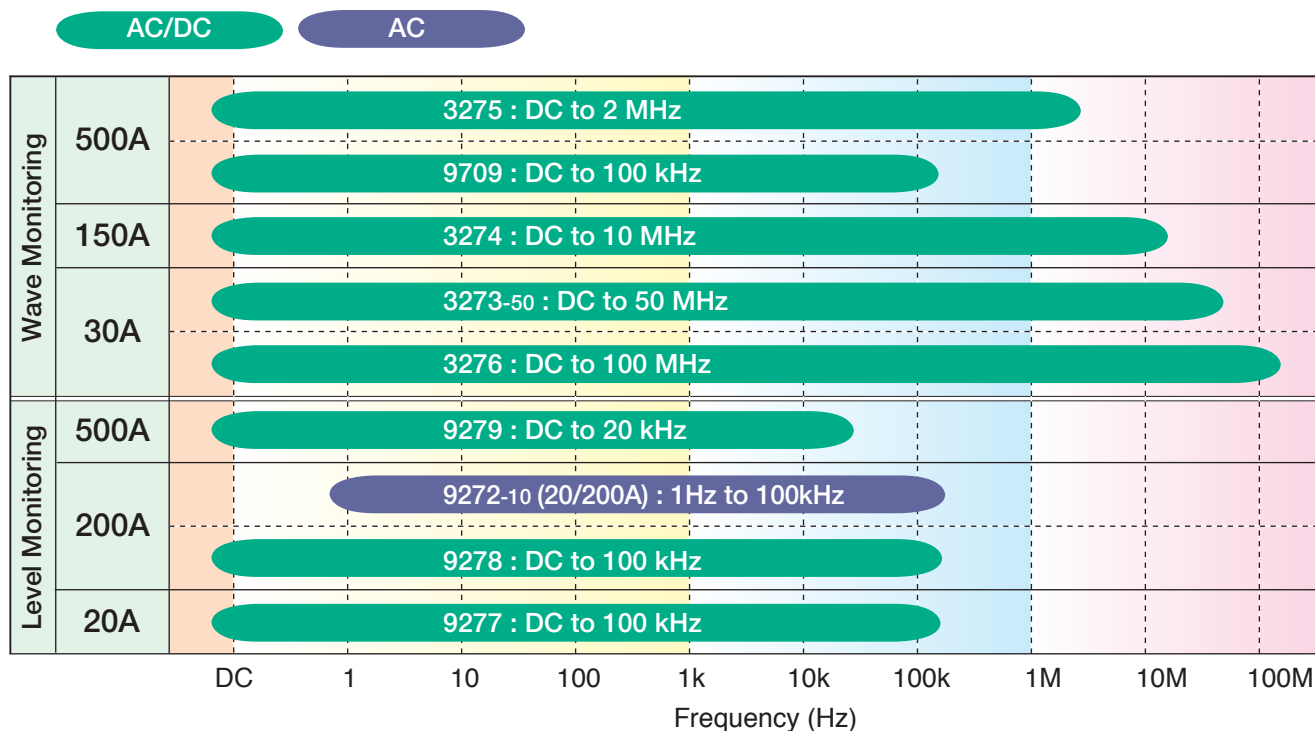
CE 9272-10

The probe cannot be used alone: the 9555-10 is required.

■ 9272-10 Specifications

Rated current	20/ 200 A AC
Maximum input current	50 Arms/ 300 Arms (50/ 60 Hz, within a derating)
Amplitude accuracy	±0.3 %rdg. ±0.01 %f.s. (45 to 66 Hz)
Phase accuracy	±0.2deg. (45 to 66Hz)
Frequency bandwidth (Deviation from the amplitude/phase accuracy)	1 Hz (±2.0% rdg. ±0.1% f.s.) to 100 kHz (±30% rdg. ±0.1% f.s.)
Output voltage	2 V f.s. (rated current)
Max. rated voltage to earth	600 Vrms AC (50/ 60 Hz)
Measurable conductor diameter	φ46 mm (1.81") or less
Cable length	Approx. 3 m [118.11"]
Power supply voltage	±11V to ±15V (Tracking)
Dimensions and mass	Approx. 78(W)×188(H)×35(D) mm; 430 g [3.07"(W)×7.40"(H)×1.38"(D), 15.2 oz.]
Supplied accessories	CARRYING CASE 9355 Mark bands × 6

■ Rated current & Frequency characteristics



⚠ WARNING



1. To avoid short circuits and electric shock accidents when using a clamp-on sensor, use only with power lines carrying voltages within the rating limit of the sensor.
2. To avoid short circuits and electric shock accidents when the clamp-on sensor is open, do not use on bare conductors.

CLAMP ON PROBE 3273-50

CLAMP ON PROBE 3274

CLAMP ON PROBE 3275

CLAMP ON PROBE 3276

CLAMP ON SENSOR 9272-10

UNIVERSAL CLAMP ON CT 9277

UNIVERSAL CLAMP ON CT 9278

UNIVERSAL CLAMP ON CT 9279

AC/DC CURRENT SENSOR 9709



3269



3272



9555-10

■ Option

POWER SUPPLY 3269 (for 3273-50 to 3276, 4ch)

POWER SUPPLY 3272 (for 3273-50 to 3276, 2ch)

SENSOR UNIT 9555-10 (for 9270-10 / 9277 to 9279 / 9709)

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