查询"3637-20"供应商





Environmental Measuring

data points

**130 grams** 

True RMS

Instrument

# 3636-20 CLAMP LOGGER 3637-20 AC VOLTAGE LOGGER

**Only**<sup>1</sup>

Easy clamp current recording and convenient, low-cost voltage recording

**Extended recording of AC current and voltage transients** 

INTERVAL SELECT

RMS

1636-20

CLAMP SENSOR

HIOKI

 Data backup when batteries are exhausted or replaced
Instantaneous/average recording (average over recording interval)

(average over recording interval) O Graphic display of recorded data through a computer Equipped with alarm output (3636-20)



HIOKI company overview, new products, environmental considerations and other information are available on our website.

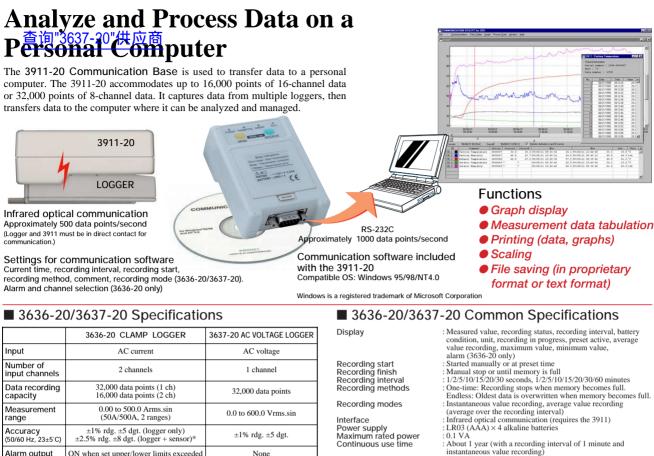
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3637-20 AC VOLTAGE LOGGER 600V AC



3636-20 CLAMP LOGGER	3637-20 AC VOLTAGE LOGGER	
AC current	AC voltage	
2 channels	1 channel	
32,000 data points (1 ch) 16,000 data points (2 ch)	32,000 data points	
0.00 to 500.0 Arms.sin (50A/500A, 2 ranges)	0.0 to 600.0 Vrms.sin	
$\pm 1\%$ rdg. $\pm 5$ dgt. (logger only) $\pm 2.5\%$ rdg. $\pm 8$ dgt. (logger + sensor)*	±1% rdg. ±5 dgt.	
ON when set upper/lower limits exceeded	None	
True RMS calculation	True RMS calculation	
LR03 (AAA) alkaline batteries × 4, 9632 connection cord (for alarm output)	LR03 (AAA) alkaline batteries ×4, 9639 connection cord (for input)	
3911-20 Communication Base, 9650/9651 Clamp-on Sensor	3911-20 Communication Base	
	AC current 2 channels 32,000 data points (1 ch) 16,000 data points (2 ch) 0.00 to 500.0 Arms.sin (50A/500A, 2 ranges) ±1% rdg. ±5 dgt. (logger only) ±2.5% rdg. ±8 dgt. (logger value) 0N when set upper/lower limits exceeded True RMS calculation LR03 (AAA) alkaline batteries × 4, 9632 connection cord (for alarm output) 3911-20 Communication Base,	

\* 50A or 500A range when using the 9650, and 500A range when using the 9651

#### 9650/9651 Specifications

	9650 CLAMP ON SENSOR	9651 CLAMP ON SENSOR	
Rated primary current	AC100A	AC500A	
Rated secondary current	AC100mA	AC500mA	
Accuracy (50/60 Hz, 23±5°C)	$\pm 1.5\%$ rdg. $\pm 0.03\%$ f.s. (where f.s. is rated primary current)	$\pm 1.5\%$ rdg. $\pm 0.03\%$ f.s. (where f.s. is rated primary current)	
Frequency response	40 Hz to 1 kHz, within $\pm 8\%$	40 Hz to 1 kHz, within $\pm 3\%$	
Maximum rated input	130A continuous (45 to 66 Hz)	600A continuous (45 to 66 Hz)	
Circuit voltage	AC 300Vrms or less (insulated conductor)	AC 600Vrms or less (insulated conductor)	
Measurable conductor diameter	φ 15 mm or less	φ 46 mm or less	
Cord length	Approx. 3 m	Approx. 3 m	
Dimensions/ mass	Approx. 46(W) × 135(H) × 21(D) mm, approx. 200 g	Approx. 77(W) × 151(H) × 42(D) mm, approx. 340 g	

### 3636-20 CLAMP LOGGER 3637-20 AC VOLTAGE LOGGER

The 3636-20 CLAMP LOGGER cannot be used for measurement by itself. A clamp-on sensor (sold separately) is required.



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F3636E1-04B-05P Printed in Japan



: Max 16,000 data points × 16 ch / 32,000 data points × 8 ch : Logger  $\Leftrightarrow$  3911-20: by infrared optical communication (with units in close contact) 3911-20  $\cong$  PC: by RS-232C connection : LR03 (AAA) × 4 alkaline batteries : 0.2 VA : Approx. 69(W) × 92(H) × 36(D) mm, approx. 150 g : 0 to 40.0°C, max 80% rh (no condensation) : -10.0 to 50.0°C, max 80% rh (no condensation) PC communication software Recording capacity Communication type Power supply Maximum rated power Dimensions/mass Ambient use conditions Ambient storage conditions PC communication software



9651 CLAMP ON SENSOR CLAMP ON SENSOR

9632 CONNECTION CABLE CONNECTION CABLE

# Options

9650

Accessories

3911-20 COMMUNICATION BASE 9650 CLAMP ON SENSOR (100A) 9651 CLAMP ON SENSOR (500A) 9632 CONNECTION CABLE (included with the 3636-20, 1 m) 9639 CONNECTION CABLE (included with the 3637-20, 3 m) 9637 RS-232C CABLE (9 pin-to-9 pin, null modem, 1.8 m) 9638 RS-232C CABLE (9 pin-to-25 pin, null modem, 1.8 m)

About 1 year (with a recording interval of 1 minute and instantaneous value recording) About 1 month (with average value recording) : Approx. 57.5(W) × 86.5(H) × 30.0(D) mm, approx. 130 g : Indoors at an altitude of no more than 2000 m : 0 to 50°C, less than 80% rh (no condensation) :-10 to 60°C, less than 80% rh (no condensation Dimensions/mass Operating environment Ambient use conditions Ambient storage conditions Applicable standards

Recording methods Recording modes

Interface Power supply Maximum rated power Continuous use time





# 3638-20 LEAK LOGGER



# Simple Leak Current Recording with Clamp On Sensors. Easy Logging at Low Cost Recording and Monitoring Leak Current

- •Select from three types of clamp on leak current sensors
- •Compact, light weight (130g), two-channel recording
- High-capacity recording (32,000 data points) Recording interval: 15 steps from 1 second to 60 minutes
- Accurate true effective value calculation even for distorted waveforms (100/1000 mA)
- •Maximum or average value recording (max./ave. within recording interval)
- •View recording data graphically on a PC
- •Data is protected during battery discharge and replacement



#### HIOKI 3638-20 LEAK LOGGER Specifications

	-			
Sensor models	HIOKI 9657, 9658 and 9659 CLAMP ON LEAK SENSORS			
Inputs is in geo 637	and 1000 mA (manual range selection)			
Instrument accuracy	$\pm$ 1% rdg. $\pm$ 5 dgt. at 50/60 Hz, 23 $\pm$ 5°C, with built-in filter for 50/60Hz			
<b>Combined accuracy</b> at 50/60 Hz, 23 ±5°C	$ \begin{array}{l} \mbox{with 9657 or 9659 sensor } \pm 2\% \ rdg. \pm 10 \ dgt. \ (100 \ mA \ range) \\ \pm 2\% \ rdg. \pm 6 \ dgt. \ (1000 \ mA \ range) \\ \mbox{with 9658 sensor} \qquad \qquad \pm 4.5\% \ rdg. \pm 10 \ dgt. \ (100 \ mA \ range) \\ \pm 4.5\% \ rdg. \pm 6 \ dgt. \ (1000 \ mA \ range) \\ \mbox{mage} \end{array} $			
Measurement period	1 or 0.2 s (one channel only)			
Recording modes	Maximum or average value			
Recording interval	1, 2, 5, 10, 15, 20 or 30 s, and 1, 2, 5, 10, 15, 20, 30 or 60 min.			
Recording data quantity	32,000 data points (single channel), 16,000 data points (for dual-channel recording)			
Recording start / end	Manual, or at preset time / Manual, or when memory full			
Recording methods	Single recording, Endless recording			
Max./Min. display	Maximum and Minimum values are displayed			
Alarm output	On when input crosses preset upper and lower limits (open-collector output)			
Backup	Data backup is provided			
Interface	Serial infrared transfer			
Power supply, consumption	AAA-size alkaline batteries (LR03 × 4), 0.1 VA			
Continuous operating period	One month (with power saver on, 1s measurement period) Ten days (with power saver off, 0.2s measurement period)			
Size & weight	Approx. 57.5(W) × 86.5(H) × 30.0(D) mm (less projections), approx. 130g (including batteries)			
Operating temperature & humidity	0 to 50°C, 80% RH or less (noncondensing)			
Supplied accessories	AAA-size alkaline batteries (LR03 × 4), Model 9632 CONNECTION CABLE (for alarm output)			

## Data Analysis and Processing on a PC

Data can be transferred to a PC using the HIOKI 3911-20 COMMUNICATION BASE. Up to 16,000 data points can be collected from 16 channels, (or up to 32,000 data points can be collected from 8 channels), and then transferred to the PC for analysis and processing.



Settings that can be made from communications software: current time, recording interval, recording start, recording methods, comment, recording mode, alarm, channel selection

#### ■ HIOKI 3911-20 COMMUNICATION BASE Specification

Recording capacity	Up to 16,000 data points $\times$ 16 channels,	
Recording capacity	Up to 32,000 data points × 8 channels	
Communication	Infrared between Leak Logger and 3911-20,	
method	RS-232C serial between 3911-20 and PC	
Power supply	Four AAA size alkaline batteries (LR03 $\times$ 4)	
Size & weight	Approx. $69(W) \times 92(H) \times 36(D)$ mm, approx. $150$ g	
Supplied accessories	PC communications software	
Supported operating systems	Windows 9x, NT 4.0	

## Clamp On Current Leak Sensor Specifications

Model	9657	9658	9659
Measurable conductor size	Up to 40 mm dia.	Up to $12 \times 30$ mm	Up to 30 × 150 mm
Rated primary current	1.0A AC		
Maximum allowable input	60A Continuous at 45 to 65 Hz	10A Continuous at 45 to 65 Hz	100A Continuous at 45 to 65 Hz
Output voltage	25 mV/A AC		
Amplitude accuracy	$\pm 1.0\%$ rdg. $\pm 12~\mu V$	±3.5% rdg. ±12 μV	$\pm 1.0\%$ rdg. $\pm 12 \ \mu V$
Residual current	5 mA (at 100A AC in)	1 mA (at 10A AC in)	30 mA (at 500A AC in)
External magnetic field effect	5 mA equiv. With 400A/m (AC), 7.5 mA max.		
Cable length	Approx. 3 m		
Voltage to ground	300 Vrms AC	150 Vrms AC	460 Vrms AC
Insulation withstand voltage	3.7 kV (for 1 min.)	2.3 kV (for 1 min.)	2.2 kV (for 1 min.)
Operating temp. & humidity	0 to 50°C, 80% RH or less (non-condensating)		
Size & weight	Approx. $74W \times 145H \times 42D$ mm, 340 g	Approx. 65W × 52H × 18D mm, 50 g	Approx. 358W × 108H × 48D mm, 2.5 k

#### NOTES:

1. Voltage to ground is that voltage between a power line and earth ground in a groundingdependent electric circuit, or the voltage between one power line and any other power line in a grounding-independent circuit.

2. Coordination of Insulation: determination of the safe and appropriate characteristics of electrical insulation of wiring and connected devices according to the operating voltage.

 Model 9658 is suitable for coordination of insulation with circuits of up to 150V voltage to ground, up to 240V for 3P3W lines, and up to 120/240V for 3P4W lines. 4. Models 9657 and 9659 are suitable for coordination of insulation with circuits of up to

300V voltage to ground, up to 500V for 3P3W lines, and up to 277/480V for 3P4W lines.

COMMON ELECTRIC CIRCUITS and COORDINATION of INSULATION

3P-4W (3-phase, 4-wire) Voltage	3P-3W (3-phase, 3-wire) Voltage	Voltage to Ground	CATIII Recommended Impulse Withstand Voltage
120/208 V 120/240 V	240 V	150 V	2500 V
230/400 V 277/480 V	500 V	300 V	4000 V

(From EN61010-2-032, Annexes J, Table J.1)

#### Model 3638-20 LEAK LOGGER

#### Options

Model 3911-20 COMMUNICATION BASE Model 9657 CLAMP ON LEAK SENSOR Model 9658 CLAMP ON LEAK SENSOR



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Model 9659 CLAMP ON LEAK SENSOR Model 9637 RS-232C CABLE (9-pin to 9-pin crossover, 1.8 m) Model 9638 RS-232C CABLE (9-pin to 25-pin crossover, 1.8 m)

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