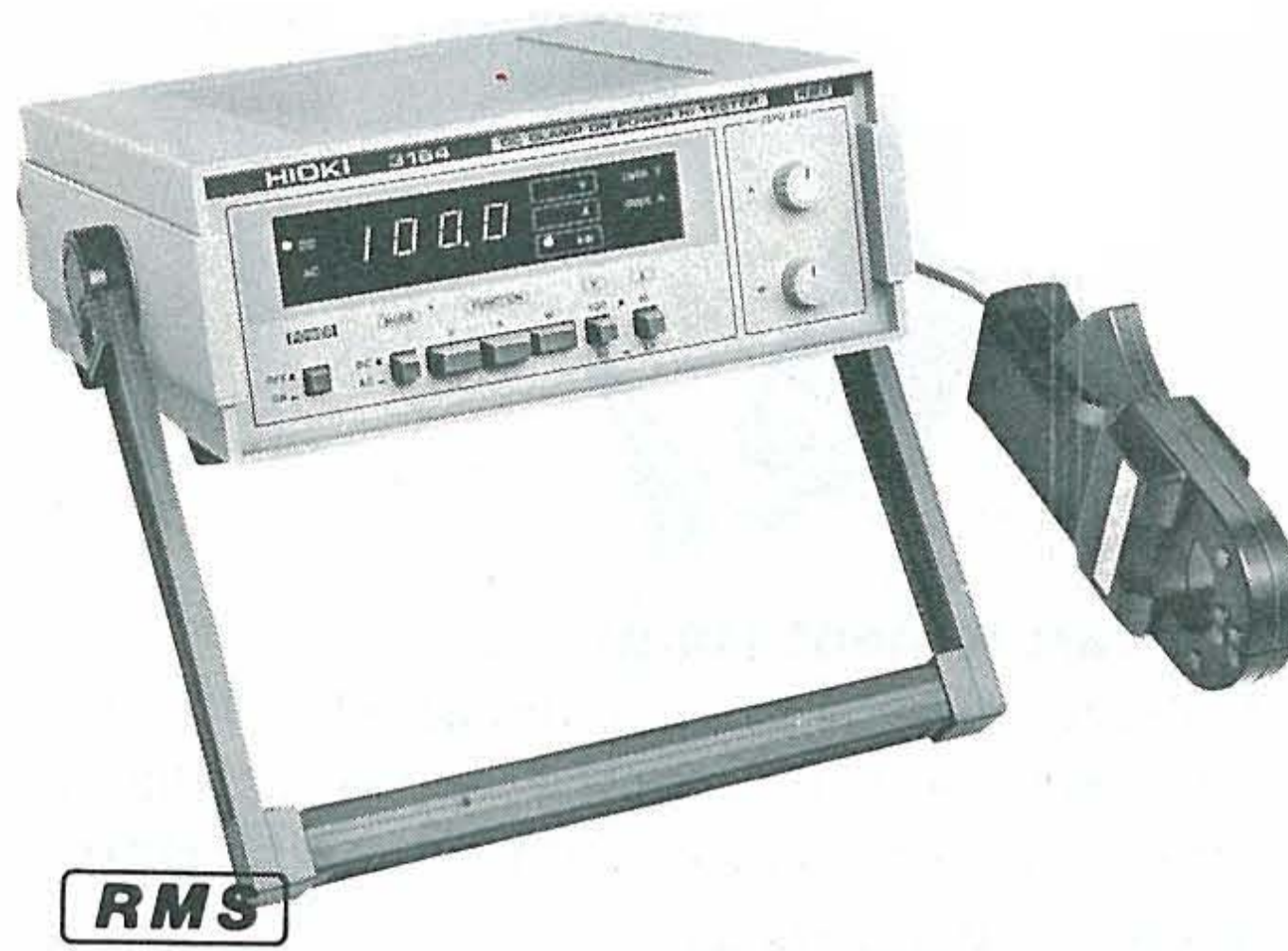


**3161 • 3162****CLAMP ON POWER Hi
TESTER****RMS****3-Phase Clmap Power Meter with
Integrator**

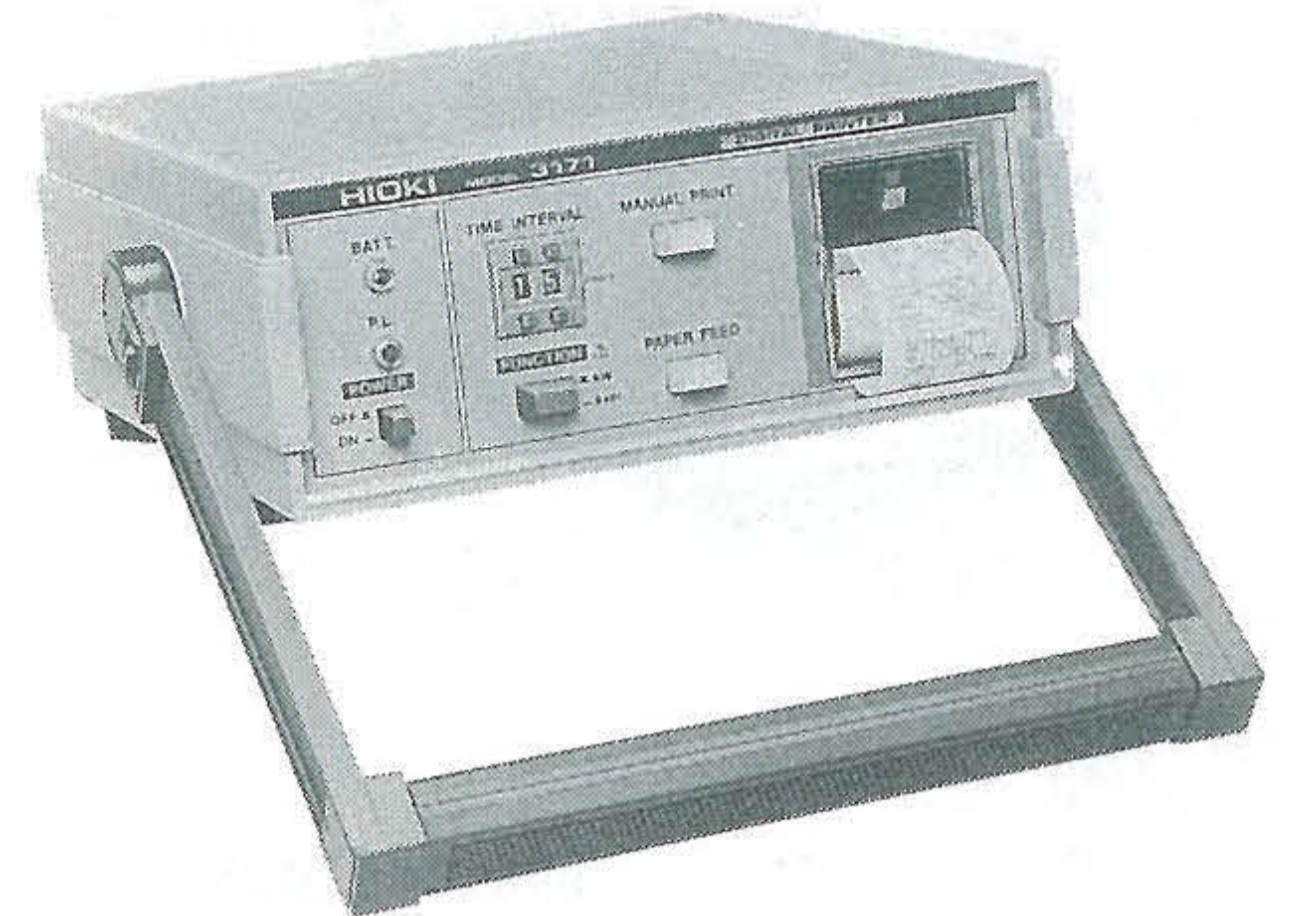
- Power meter measures active and reactive power, and the integrator can select between measurement of power (kWh) and average power (average time 36s).
- Can operate off batteries for 48 continuous hours.
- Double power meter system can also measure unbalanced circuits.

3164**DC CLAMP ON
POWER Hi TESTER****RMS****Can Also Measure DC Power**

- Simple clamp-on measurement of conventionally difficult DC power.
- Measures AC and DC voltage, current and power.
- Simultaneous output of V, A and W.
- True rms displayed for AC measurement.

3171 DIGITAL PRINTER

Supplying the digital output from 3161, 3162 or 3181 integrators to the internal timer can provide an automatic or manual continuous printout.

85H × 218W × 240Dmm
2.6kg

Printing Method: Thermal
Recording Paper: 38mm × 8m
Print Function: Time (23h 59 min. 59s).

Cumulative integrated power, power occurring over an interval (amount of demand), average power at specified interval, appropriate comments (START, EXT, PRINT, MANUAL, OVER, OV, ERROR, INTVL, AV.), appropriate units (kW, kWh, sec.)

Operating Functions:
Paper feed; manual (time interval 1 to 99 min.)
Unit selection; watt-var

Power Supply: 100/120/220/240 VAC (rear panel selector 50/60Hz)

Dimensions: 85H × 218W × 240Dmm

Accessories: Connector cable, power cord (1), 3A fuse (midget type) (1), 9082 carrying case (1), 9220

Optional Accessories:
9220 Recording paper (8m, 5 rolls)

Compatible Models: 3161, 3162, 3181-01

■ SPECIFICATIONS

Item	3161	3162	3164-01	3164-02
Effective Power	20k/200kW	200k/1000kW	2k/20k/200kW	20k/200k/1000kW
Reactive Power	20k/200kvar	200k/1000kvar	—	—
Voltage	—	—	50/500V	50/500V
Current	—	—	20/200A	200/1000A
Power Factor	—	—	—	—
Integrated Power	10 ² , 10 ⁴ /10 ³ , 10 ⁵ kWh	10 ³ , 10 ⁵ /10 ⁴ , 10 ⁶ kWh	—	—
Accuracy (23 ± 5°C)	±1% rdg. ±0.5% f.s. (W, var, at cos φ = 1) ±1% rdg. ±1 dgt. (Integrator, at 1/40 to 6/5 of f.s.)		±1% rdg. ±6 dgt. (W, at cos φ = 1) ±1% rdg. ±1 dgt. (V) ±1% rdg. ±4 dgt. (A)	
Max. Core Jaw dia.	φ 30mm (9003)	φ 46mm (9002)	φ 30mm (9001-01)	φ 46mm (9002-01)
Display	1999 (3½-digit) LCD (W, var) 999999 (6-digit) LCD (Integrator)		1999 (3½-digit) LED	
Max. Input Voltage	500Vrms		750Vpeak	
Max. Input Current	500Arms	1000Arms	500Apeak	2000Apeak
Output Terminal	2V DC f.s. (Internal resistance 50Ω, analog) CMOS level Hi = 6V, Lo = 0V (digital)		2V DC f.s. (1Ω >) (analog) CMOS level Hi = 5V, Lo = 0V (digital)	
Frequency Characteristics	±3% > (40 to 500Hz, cos φ = 1)		±2% > (20Hz to 1kHz, cos φ = 1)	
Effect of p.f.	±3% > (cos φ = 0.5)		±1% > (cos φ = 0.5)	
Temp. Characteristics	±3% > (0 to 40°C)		±1.5% > (0 to 40°C)	
Effect of Conductor Position	±1% max.			
Power Supply	SUM-2 (C, 4) (Continuous use 48 hr.) or AC adapter (6V, 300mA)		100/120/220/240VAC (specify at order), 5W	
Dimensions	85H × 218W × 240Dmm • 2 to 2.5kg			
Accessories	Clamp sensors (2) 9092 Voltage test lead (1) 0.3A Fuse (midget type, non arcing) (1) 9082 Carrying case (1)		9092 Voltage test lead (1) Power cord (1) 0.3A Fuse (midget type, non arcing) (1) 9082 Carrying case (1)	
Ordering Information	—		3164-03 (with 9001-01, 9002-01)	
Optional Accessories *	3171 Digital Printer (with case) 9290 Clamp on Adapter (Max. 1500A AC)		9001-01 Clamp Sensor 9002-01 Clamp Sensor 9290 Clamp on Adapter (Max. 1500A AC)	

*3160-3180 series Common Optional Accessories
9149 Carrying Case (for two meters)