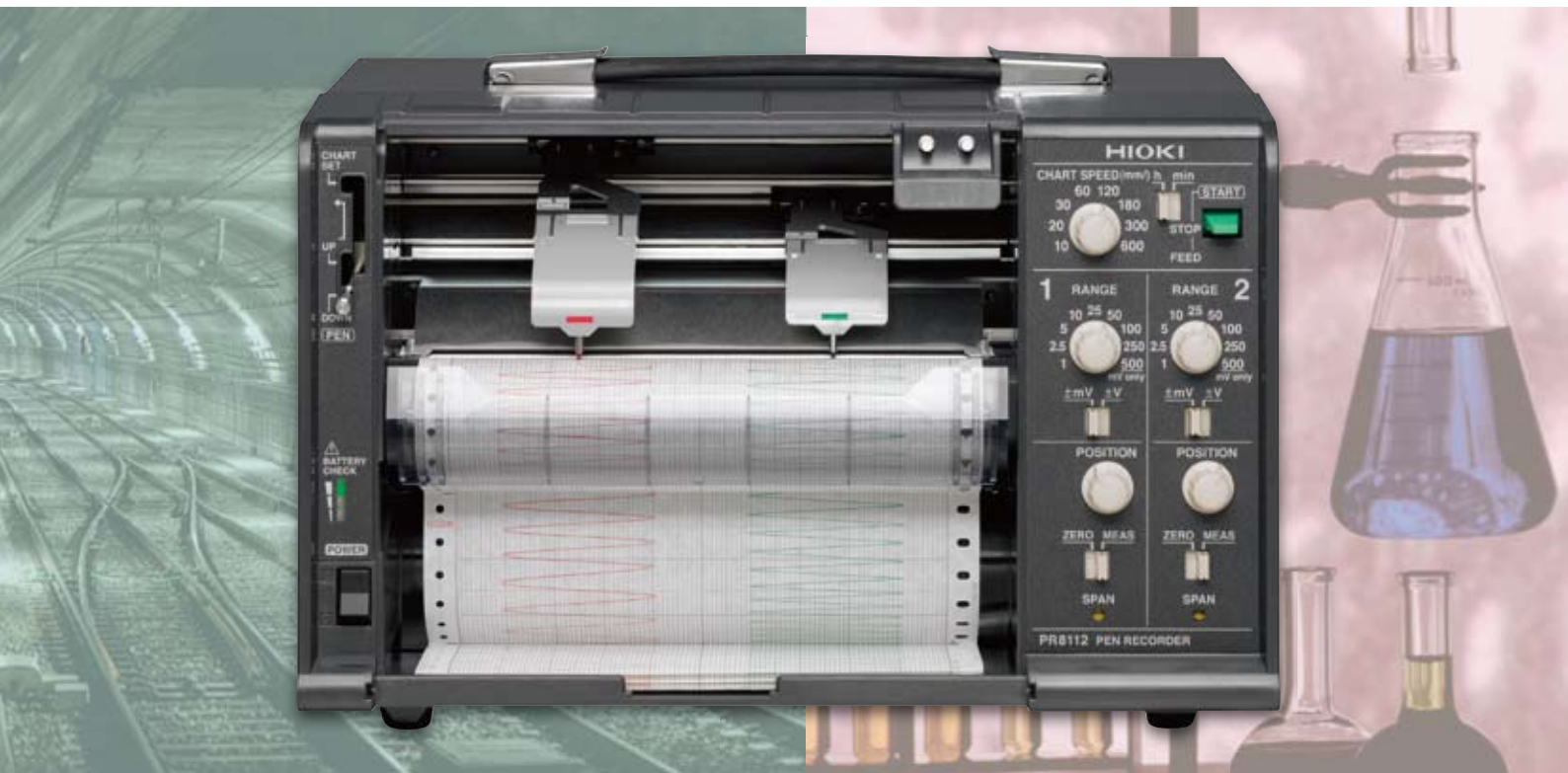




## PEN RECORDER PR8111, PR8112

Recorders 



***Portable, easy-to-use pen recorder  
built for the field***

- Easily portable  
**Compact size**
- Support for three power sources  
**Can be powered with dry-cell batteries.**
- Outdoor-ready  
**Ships with a drip-proof cover.**
- Pen-based  
**Records data reliably.**
- Easy enough for anyone to use  
**Features simple operation.**



ISO 9001  
JMI-0216



ISO 14001  
JQA-E-90091



[www.hioki.com](http://www.hioki.com)

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

PR8111: 1 pen, PR8112: 2 pens

# Take reliable measurements. Anywhere.

Wherever you take them, the PR8111 and PR8112 will yield reliable measurement data that can be stored for extended periods of time.

## ■ Measure up to 250V with high 1mV sensitivity

The PR8111/PR8112 can accommodate a variety of input signals thanks to a broad series of measurement ranges.

### Measurement ranges: 17 ranges

$\pm 1, 2.5, 5, 10, 25, 50, 100, 250, 500 \text{ mV}, \pm 1, 2.5, 5, 10, 25, 50, 100, 250 \text{ V}$

## ■ Support for three power sources to allow use anywhere

The PR8111/PR8112 can be powered using its AC adapter, dry-cell batteries\*1, or a DC power supply\*2.

\*1: Requires six D size Alkaline batteries

Continuous operating time: Approx. 50 h (using 1 pen) or approx. 25 h (using 2 pens)

\*2: A connection cable is available by special order.

Please contact your HIOKI representative.

## ■ Simple dust- and drip-proof design for outdoor use

- A front cover protects measurement hardware from wind and dust (and keeps recording paper from blowing away in the wind).
- A drip-proof cover protects the instrument and recorded data from water droplets and dust (affording peace of mind in the event of a sudden rain shower).

## ■ Instant confirmation of measurement operation by watching pen movements

The ability to view measurements being taken, even from a distance, allows you to immediately detect any malfunction.

## ■ Reliable storage of important data

- Pen-based operation provides a reliable record of measurement data.
- Recording paper can be stored as-is for extended periods of time.

With the front cover closed



With the drip-proof cover on



# So simple, it just works.

With the drip-proof cover on

You need an instrument you can get out to the field easily and start using right away. The PR8111/PR8112 delivers.

## ■ Excellent portability

A more compact design means even better portability.

(The PR8111/PR8112 is approximately half the size of previous HIOKI models by volume.)

Don't be fooled by their smaller footprint — these instruments can use the same recording paper as their predecessors.

Recording width: 150 mm

Compact  
Lightweight



[ PR8112 ]



[ Previous HIOKI model: EPR-3500s ]

## ■ Simple, intuitive operation

- Simple, intuitive controls
- Settings that are visible at a glance

Start using it  
right away

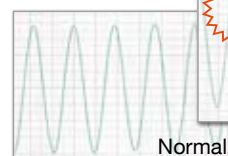


Operating panel  
(2-pen model)

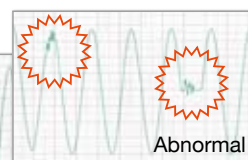
## ■ Find anomalies quickly

- You can check recorded waveforms in the field.
- Recordings can easily be compared to past data.

Find problems  
immediately



Normal



Abnormal



# PR8111/PR8112 Features

**PR8111**  
1 pen

**PR8112**  
2 pens

Pictured: PR8112  
(2-pen model)

*The days of big, heavy pen recorders are over.*

*Introducing a compact, lightweight instrument that's designed for simple ease of use.*

## Compact and lightweight

Easily portable for outstanding mobility  
Dark gray color so dirt doesn't stand out

## Power supply LED

Provides a color-based indication of remaining battery life.

**Green:** Ample remaining battery life

**Orange:** Limited remaining battery life

**Red:** Replace batteries.

## Front cover (standard)

Protects the recording hardware from wind and dust (removable).

## Channel 2 POWER switch (rear)

Allows you to turn off power to channel 2 (pen 2) to save energy when performing measurements with just one channel. Available on the PR8112 (2-pen model) only.

## Simple operation

Intuitive knobs and switches  
Easy-to-understand operation:  
Each knob or switch controls a single function.  
No need to worry about how to operate the instrument.

## Inputs (rear)



Support for Johnson, banana, and crimp-type terminals

## Recording hardware

Check waveforms and make notes in the field.

Recording paper can be stored as-is for extended periods of time.



Recording paper width: 150 mm  
(Can use paper designed for use with previous models.)

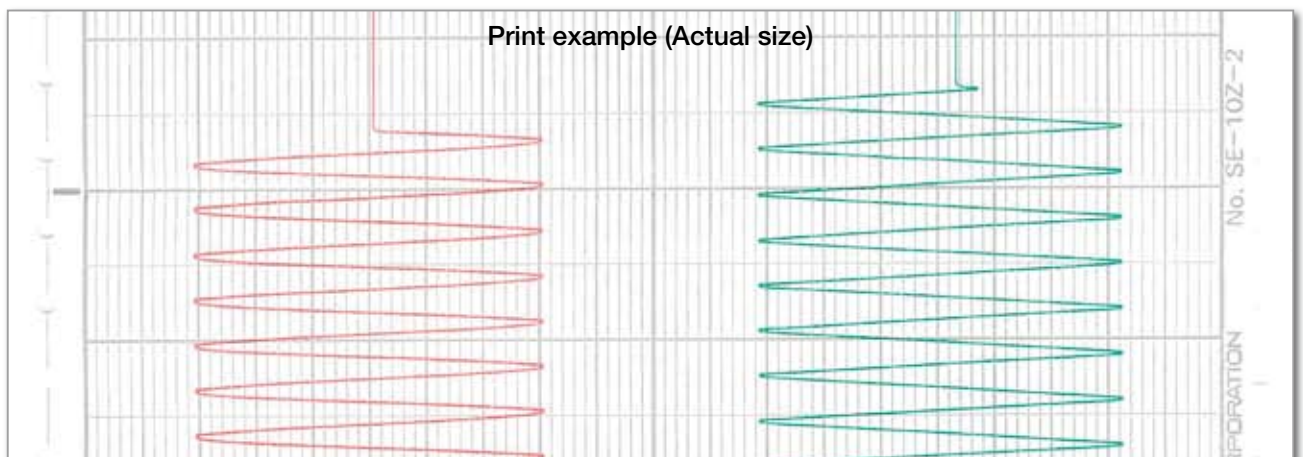
## Applications

### Record output from measuring instruments

Record analog output from temperature/humidity, pH, and other environmental measuring instruments, insulation testers, and sensors



Print example (Actual size)



# Specifications

## Input unit (product guaranteed for one year)

Operating method	Self-balancing
Input	DC Voltage (isolated input)
Measurement ranges	±1, 2.5, 5, 10, 25, 50, 100, 250, 500 mV, ±1, 2.5, 5, 10, 25, 50, 100, 250 V 17ranges
Recording accuracy	±0.5% of effective recording width (excluding contraction and expansion of recording paper) (Including linearity in reference range; reference range of 250 mV)
Dead zone	±0.2% of effective recording width
Inter-range error	±0.25% of effective recording width
Input impedance	2 MΩ±1 %
Max. allowable input	250 V DC (V range) or 30 V DC (mV range)
Max. rated voltage between terminals and ground	300 V DC/AC
Battery check	3-stage LED display (green, orange, red) (when operating on dry-cell battery power) Accuracy is guaranteed even when red indicator is lit.
Operating temperature and humidity	0 °C to 40 °C, 40 % to 80 % rh (non-condensating)
Power supply	(1) AC ADAPTER 9418-15: 100 to 240 V AC (50/60 Hz) (2) D Size alkaline battery × 6 (When used with the AC adapter, the adapter takes precedence.) [Continuous use] (based on in-house testing conditions) PR8111: Approx 50h, PR8112: Approx 25h (3) DC power supply: 10 to 27V DC (cable available by special order)
Max. rated power	4VA (AC ADAPTER, DC POWER) or 3VA (dry-cell batteries)
Dimensions	292 mm (11.5 in) W×177 mm (6.97 in) H×182 mm (7.17 in) D
Mass	PR8111: 3.9 kg (137.6oz), PR8112: 4.4 kg (155.2oz) (instrument only) PR8111: 4.8 kg (169.3oz), PR8112: 5.3 kg (186.9oz) (with dry-cell batteries, recording paper, and pen(s))
Storage temperature and humidity	-20 °C to 55 °C, 10 % to 80 % rh (non-condensating)
Applicable standards	Safety: EN61010-1 EMC: EN61326-1 CLASS A, EN61000-3-2, EN61000-3-3

## Recording unit

No. of pens	PR8111: 1 pen, PR8112: 2 pens
Recording method	Disposable felt pens
Recording width	150 mm
Pen interval	5 mm±1 mm
Pen speed	500 mm/s or greater (using AC adapter)
Paper feed speed	10, 20, 30, 60, 120, 180, 300, 600 mm/m 10, 20, 30, 60, 120, 180, 300, 600 mm/h 16 ranges Accuracy: ±0.25%
Zero point movement range	Can be adjusted throughout each range's full area of movement.
Chart feed	300 mm/min, slow-up method
Pen-lifting mechanism	Gang lift
Orientation	Vertical
Recording paper	Fanfold plain paper SE-10Z-2 (length: 15 m) Roll plain paper SE-10 (length: 20 m)

## PR8111 (1-pen model)

## PR8112 (2-pen model)

### Accessories

FELT PEN PR8111: P-1201A (Red)  
PR8112: P-1201A (Red), P-1202A (Green)  
RECORDING PAPER × 1 (fanfold)  
AC ADAPTER 9418-15 × 1, Drip-proof cover × 1, Instruction manual × 1

## OPTION



**RECORDING PAPER SE-10Z-2** (fanfold)  
Width: 170 mm (effective recording width: 150 mm) × 15 m,  
Set of 10



**RECORDING PAPER SE-10** (roll)  
Width: 170 mm (effective recording width: 150 mm) × 20 m,  
Set of 10



**FELT PENS**  
P-1201A (Red)  
P-1202A (Green)  
P-1203A (Blue)

*The PR8111/PR8112 uses the same recording paper and felt pens as previous HIOKI models (the EPR-3000 series and EPR-3500 series).*

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