HIOKI

PEN RECORDER PR8111, PR8112



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
- **Protection from dripping water and dust**
  Ships with a drip-proof cover
- **Pen-based**
  Records data reliably
- **Easy enough for anyone to use**
  Features simple operation

CE

PR8111: 1pen, PR8112: 2pens

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.

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 dry-cell 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.

Protection from dripping water and dust Front cover & Drip-proof cover*3

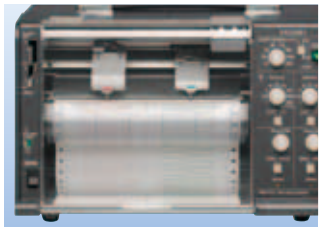
- A front cover protects measurement hardware from wind and dust
- A drip-proof cover protects the instrument and recorded data from water droplets and dust

*3: The instrument is designed for indoor use.
Pens may not function properly in environments characterized by excessive dust or grit.
Close the front cover and attach the drip-proof cover before using fanfold recording paper.

With the drip-proof cover on



With the front cover closed



Measure up to 250 V with high 1 mV sensitivity

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

Measurement ranges: 17 ranges
±1, 2.5, 5, 10, 25, 50, 100, 250, 500 mV
± 1, 2.5, 5, 10, 25, 50, 100, 250 V

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.

Applications

- Maintenance of Corrosion Protection Work

For more information , please go to www.hioki.com.

So simple, it just works.



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

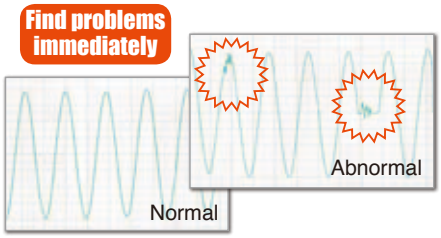


Operating panel (2-pen model)

Find anomalies quickly

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

Find problems immediately



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.



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

Front cover (standard)

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

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.)

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.

Applications

Record output from measuring instruments

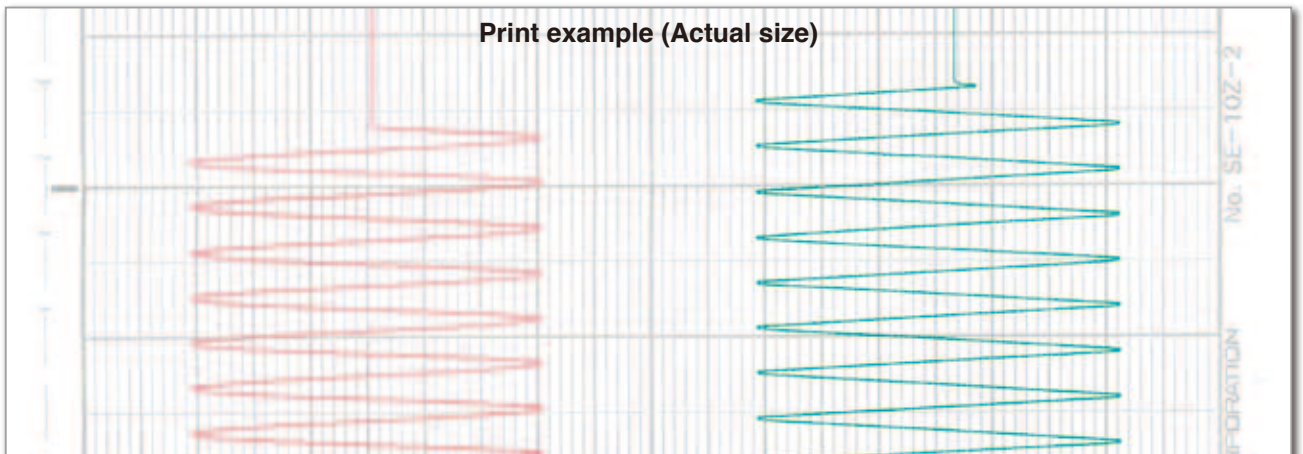
Record analog output from temperature/humidity, pH, and other environmental measuring instruments, insulation testers, and sensors







Print example (Actual size)



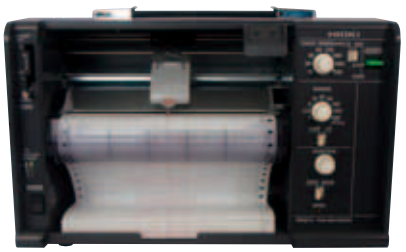
■ Specifications

Input unit (accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year, product guaranteed for 1 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 17 ranges
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 50 h, PR8112: Approx 25 h (3) DC power supply: 10 to 27 V DC (cable available by special order)
Max. rated power	Using AC adapter: 18 VA (including AC adapter) or 4 VA (main unit only) Using DC power supply: 4 VA Using dry-cell batteries: 3 VA
Dimensions	292 mm (11.5 in) W×177 mm (6.97 in) H×182 mm (7.17 in) D
Mass	PR8111: 3.9 kg (137.6 oz) , PR8112: 4.4 kg (155.2 oz) (instrument only) PR8111: 4.8 kg (169.3 oz) , PR8112: 5.3 kg (186.9 oz) (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 EMC: EN61326 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 (5.91 in)
Pen interval	5 mm ±1 mm (0.20 in ±0.04 in)
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)



Pictured: PR8111
(1-pen model)

Model : PEN RECORDER PR8111, PR8112

Model No. (Order Code)	(Note)
PR8111	(1 pen)
PR8112	(2 pens)

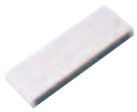
Note: Instrument does not include input cords. Input terminals are Johnson terminals and require connection of a power supply. *Connection Cord L9257 can also be used.

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

■ OPTION

Recording paper

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



RECORDING PAPER SE-10Z-2
Fanfold, 170 mm (6.69 in) width × 15 m (49.22 ft), Set of 10



RECORDING PAPER SE-10
Roll, 170 mm (6.69 in) width × 20 m (65.62 ft), Set of 10

Pens

*P-1201A is bundled with the PR8111, PR8112 *P-1202A is bundled with the PR8112
The PR8111/PR8112 uses the same recording paper and felt pens as previous HIOKI models (the EPR-3000 series and EPR-3500 series)



FELT PEN (RED) P-1201A
For the PR8111, INR-9000, EPR-3000 series



FELT PEN (GREEN) P-1202A
For the PR8111, INR-9000, EPR-3000 series



FELT PEN (BLUE) P-1203A
For the PR8111, INR-9000, EPR-3000 series

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

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