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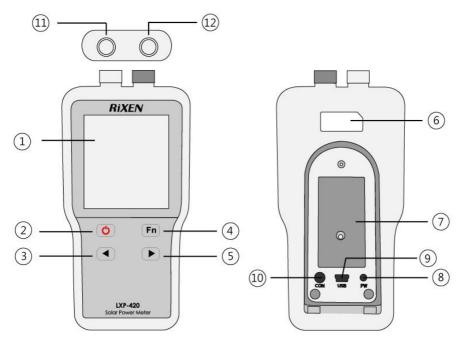
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LXP-420 specifications

Input	0.0mV~140.0mV		
Measurement Range	0.0~3200.0 W/m ²		
Accuracy	±0.1%		
Resolution	0.1 W/m ²		
Reading Rate	Approx 1 sec		
Logging Sampling Rate	2 second to 120 minutes (User Selectable)		
Baud Rate	57,600		
Main Functions	Data hold, Max/Min/Avg Functions,		
	Data-Logging, Perpetual calendar, AC/DC		
	powe <mark>r, B</mark> atter <mark>y sign a</mark> nd low battery warning,		
	Calibration function, Sensitivity adjustment,		
	LED back-light, IP66 water and dust proof.		
Power Source	One 9 V battery or AC Adaptor		
	150 × 75 × 28 mm		
Dimensions / Weight	Approx 320g (battery included)		
Input Connections	Ba <mark>na</mark> na Socket X 2		
	LXP-420 Solar radiation power meter		
Standard Applications	TU-655C Plastic Carrying Case		
	TU-609 Battery 9V006P		
	Instruction manual and warranty		
O <mark>peratin</mark> g Environment	-20 ~ + 60℃ ; 0 ~ 100 %RH		

Above accuracy and sampling rate excludes errors generated by Temperature probe.Specifications are subject to change without notice.

Instrument descriptions



- ① Large LCD Display
- ② Power switch
- ③ Move key / RCD record key
- ④ Function key / Setting key
- S Move key
- [®] Model No. and Serial No.

- ⑦ Battery cover
- AC Adaptor Input
- RS-232 Output connector
- 1 Anode (Red) Input
- ② Cathode (Black) Input

Display descriptions



Display	Descriptions
300 2	Battery Power Symbol
Ð	Manual shut down
CAL	Under Calibrating
HOLD	Data Hold
RCD	Data Record
MAX	Maximum Value
MIN	Minimum Value
AVG	Average Value
Area Digit A.B.C.	Value Displayed
Hidden symbols	Shows when enter the setting mode or device abnormal

Abnormal displays

- A. When <u>Area A</u> shows, <u>----</u> please release all keys.
- B. When Area A shows, Error the situations below may be the causes:
 - 1. The read value higher than 3200.0 W / m²
 - 2. The input signal connector (cable) is not properly inserted or locked in the instrument socket or the sensor is damaged.
 - 3. If Eccor is appears when turning on the instrument, please release all keys and tune on the instrument again.

Key descriptions

Key	Function	Descriptions	LCD display
Ċ	Power On/Off	Press 🕐 one second (Be-) can turn on the power. If the instrument is lying idle for five minutes, it will turn off automatically.	88888
Fn + U	Manual turn off	When the device is on off state, hold $\boxed{\operatorname{En}}$, then press $\textcircled{0}$ to turn on. When $\textcircled{0}$ appears in the screen, please release this two keys. It is finished to entering the manual turn off mode.	◆ 88888 8888 8888
	Hold mode	Under testing mode, press Fn to entering the data hold mode (HOLD show up). Use and to change the displayed functions. Press Fn to exit to RCD hold mode. When MAX and MIN are showed, area B will shows the first occurred data sheet, area C will shows the time (hour : minute). When AVG is showed, area B and area C will shows the total recording time (hour-minute: second), RCD revealed the data item.	RCD MAX AVG - MIN
Fn	RCD Reading Mode	Under hold mode, press Fn to into the RCD reading mode. Use and b to switch the displayed record value. Press and hold or to switch quickly. Press Fn again to back to the hold mode.	
(25)	Setting Mode (Ref, SEn, date, time, sampling time)	Under measurement mode, press and hold Fin more than two seconds, when area A appears 500, release the Fin to enter the setting mode, there are several selects in the setting mode, press Fin to entering. Ref, Span setting: To entering when FF and 50 appeared on the screen. Press I to choose the figures from 0 to 9 and use to select the digit. Press Fin to finish the setting. Date setting: Entering when of the appears, use I and I to switching the value, press and hold can speed up the value switch. Press Fin to confirm the value. Sampling rate setting: Entering when of the appears, use I and I to switching it, press Fin to confirm the value. Exit: when the screen shows End, press Fin to exit.	
	RCD Record Mode	Under the testing mode, and there is no recording data, press ■ to entering the RCD record mode. The sampling time will be showed this moment. The CCD will flashes when record mode process. Please press ■ or Ů to stop recording. The CCD will stop flashes while stop. The CCD will showed up when there are records on the internal.	
	RCD Clear Mode	Under the testing mode, and there are records on the internal (RCD showed), press	

Key	Function	Descriptions	LCD display
	Value Change	Press b to change the values in any modes.	
		Under any mode, press <a>And<> simultaneously, the back light will be turned on.	
 ▼ + ▲ 	turn on back light	Note: When the battery power is lower than 25%, the LED back light will not be able to function, and the w will twinkled for four seconds.	

Instructions

A. Real Time Testing Mode:

Show up the real time measured values, months, date, and current time.

B.RCD Record mode:

Under the testing mode, press into the record mode, It will shows up the sampling rate before starting record, and the RCD will twinkled. Press or O to stop recording. The RCD will stop flashes while stop. The RCD will showed up when there are records on the internal. Alarm function cannot be activated on the record mode.

C. RCD Clear Mode:

Under the testing mode, and there are records on the internal (RCD showed), press d to entering the RCD clear mode, the LLER will be displayed. Please press d and b to select options, press fn to confirm.

The ∩□ twinkled means not to clear the data, and the ¹²⁵ twinkled means to clear the data. It needs 7 to 10 seconds to processing this instruction.

the CLEAr will twinkled when clearing record, please waiting for the symbol - below disappeared.

D. Hold Mode:

Under testing mode, press Fn to entering the data hold mode. Use A and to change the displayed functions such as Max, Min, Avg and logging data items. Press Fn again to switch to the RCD recording mode.

E. RCD Reading Mode:

Under hold mode, press Fn to into the RCD reading mode. Use and to switch the displayed record value. Press and hold or to switch quickly. Press Fn again to back to the hold mode.

F. Select Setting Mold

Under measurement mode, press and hold $\boxed{\text{Fn}}$ more than two seconds, release $\boxed{\text{Fn}}$ when $\boxed{\text{SEL}}$ appeared to entering the setting mode. Use \blacksquare and \blacktriangleright to choose the setting item, and press $\boxed{\text{Fn}}$ to confirm. Press $\boxed{\text{Fn}}$ again to finish setting.













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Setting Mode Description

1. REF and SPAN setting mode

Use this mode to setting the low deviation (REF) and sensitivity (SEN). Press to choose the figures from 0 to 9 and use to select the digit. The thousands digit can be switched into a negative sign when setting of low deviation. It is not feasible that to switched into the negative sign when the value shows 0000.0. Press Fn to confirm and it will switch to the setting select mode.

*REF setting range: 100.0 to -100.0

- *SEN Setting range: 200.00% to 0.00% (original set at 10.00%)
- *SEN Calculation:
- If the sensor did not show up the sensitivity, please transfer the value by the following formula: SEN= Maximum output (mV) / Maximum received power (kW)

2. Date and Time setting mode

Press d to select the digit and use b to choose the figures from 0 to 9. Press and hold c an acceleration the figures circulate. The value of second cannot be setting and the maximum setting of year is in 2099. Press from to confirm and finish the setting.

3. Sampling rate setting mode

This mode is use to setting the sampling rate, press and be to switch the rate. Display format: hour- min: sec; Press In to confirm the setting. *Sampling rate setting: 2 seconds, 5 seconds, 10 seconds, 20 seconds, 30 seconds, 1 minute, 2 minutes, 5 minutes, 10 minutes, 30 minutes, 1hour, 2 hours

4. Exit the setting mode

Use this option when you finish your setting.

Precautions

- 1. This instrument has a waterproof function; please do not use it in a high temperature environment or with corrosive materials to avoid leakage or damage.
- 2. When the instrument shows power shortages, please replace the battery immediately.
- 3. When the device will not be used in a long time, please set the device and all accessories into the protective case, stored in a dry place, and avoid exposure to sunlight directly.
- If there are any operation questions or malfunction, please contact your local distributor or our service department.







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