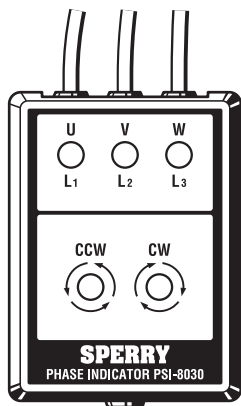


7/05

FORM#349

# OPERATING INSTRUCTIONS



DIGITAL PHASE INDICATOR

# PSI 8030

**A.W. SPERRY INSTRUMENTS INC.**

**The Professional's Choice®**

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# 1. Safety Warning

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- (1) **Never exceed the operational voltage specified as 200V to 480V AC three phase.**
- (2) **Make sure not to exceed the time limit for continuous operation specified as 60 minutes at 200V and 4 minutes at 480V. The maximum time indicated above is measured from the time when more than 2 test leads of the unit are connected to the power supply cords.**
- (3) **PSI 8030 may not be used as a voltage detector.**  
**Be careful that one phase is still live even if all LED's are off at open phase check.**
- (4) **The surface of the “suction disk” must be cleaned with a soft cloth remove dust, grease or grime from it before use.**
- (5) **Do not expose the instrument to the direct sun, extreme temperature or dew fall.**
- (6) **The symbol  means that the user must read the instructions in the operating manual for safe operation of the instrument.**
- (7) **The instrument must be used by a competent, trained person and operated in strict accordance with the instructions.**  
**A.W.Sperry instruments Inc. will not accept liability for any damage or injury caused by misuse or noncompliance with the instructions or safety procedures. It is essential to read and understand the safety rules contained in the instructions. They must be observed when using the instrument.**

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# 2. Features

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- **Phase indicator designed to check the presence of open phase and also the phase sequence by LED and buzzer at the same time.**

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### 3. Specifications

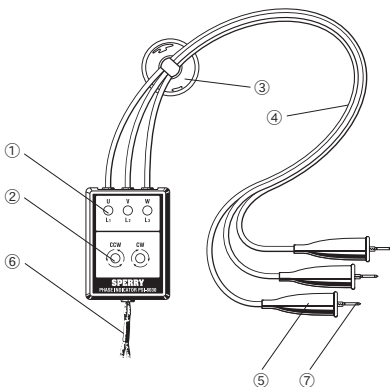
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⚠ <b>Operational Voltage</b>	200-480V AC three phase
⚠ <b>Time Limit for</b>	60 minutes max. at 200V AC
<b>Continuous use</b>	4 minutes max. at 480V AC
<b>Operating Frequency</b>	20Hz – 400Hz
<b>Range</b>	
<b>Withstand Voltage</b>	2200V for one minute
<b>Dimensions</b>	80(L)×59(W)×23(D)mm
<b>Weight</b>	Approx.200g
<b>Test leads</b>	Double insulated cords, approx. 1 meter long, prods for test leads, instruction manual, carrying case

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## 4. Instrument Layout

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- |                                     |  |
|-------------------------------------|--|
| ① <b>Open Phase Check LED's</b>     | 3 orange LED's   |
| ② <b>Phase Sequence Check LED's</b> | Green for Correct phase, Red for Reverse phase   |
| ③ <b>Suction Disk</b>               | Convenient for fixing the unit at a switchboard, etc.                                      |
| ④ <b>Test leads</b>                 | Red for L1(R), White for L2(S) and blue for L3(T).   |
| ⑤ <b>Alligator Clips</b>            | Clip onto a wire or terminal not exceeding approx. 10mm in diameter.                       |
| ⑥ <b>Hand Strap</b>                 | Prevents the unit from slipping off the hand.  |
| ⑦ <b>Prods</b>                      | Convenient for using the test leads the same way as those for general purpose multimeters. |

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## 5. Measurement & Check Methods

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### 5-1 Measurement Method

Connect the alligator clips of the unit to the three phase circuit under test. The unit will indicate the presence of open phase and phase sequence by LED and buzzer.

### 5-2 Check Method

<b>Open Phase Check LED's</b>	<b>Phase Sequence Check LED's</b>	<b>Buzzer</b>
<b>Correct Phase (CW)</b>		
All 3 orange LED's are lit	Green LED is lit	Intermittent beep
<b>Reverse Phase (CCW)</b>		
All orange LED's are lit	Red LED is lit	Continuous beep
<b>Open Phase (one phase only)</b>		
Orange LED for open phase is off.	Both green and red LED's are off.	Continuous beep

## **Lifetime Limited Warranty**

The attention to detail of this fine snap-around instrument is further enhanced by the application of A.W. Sperry's unmatched service and concern for detail and reliability. These A.W. Sperry snap-arounds are internationally accepted by craftsmen and servicemen for their unmatched performance. All A.W. Sperry's snap-around instruments are unconditionally warranted against defects in material and workmanship under normal conditions of use and service; our obligation under this warranty being limited to repairing or replacing free of charge, at A.W. Sperry snap-around instrument that malfunctions under normal operating conditions at rated use.<sup>1</sup>

### **Replacement procedure**

Securely wrap the instrument and its accessories in a box or mailing bag and ship prepaid to the address below. Be sure to include your name and address, as well the name of the distributor, with a copy of your invoice from whom the unit was purchased, clearly identifying the model number and date of purchase.

**A.W.SPERRY INSTRUMENTS INC.  
ATT: Customer service dept.  
2150 Joshua's Path, Suite 302,  
Hauppauge, NY 11788**

<sup>1</sup> The warranty is not applicable if the instrument has been: misused, abused, subjected to loads in excess of specifications, has had unauthorized repair or has been improperly assembled or used.

\*Note: Recommended calibration interval should not exceed one year. Calibration service charges are not covered terms and conditions of warranty.

**A.W. SPERRY INSTRUMENTS INC.**  
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