HOW TO USE THE DAYTON AS AN OHMMETER

Make certain no voltage is present in circuit before connecting ohmmeter to circuit. The ohmmeter is fused to help protect it against a misapplication of voltage but under certain conditions it is still possible to damage the meter and/or to obtain incorrect readings.

1. Insert either the red or black voltage lead into the LEFT VOLTAGE RECEPTACLE at bottom of DAYTON case. Fig. #17.

2. Plug the lead of the ohmmeter battery/fuse attachment into the right side of the DAYTON snap-around just below the ohmmeter Zero Adjust Knob. Seat plug to bottom for good connection. Fig. #18.

3. SET RANGE SELECTOR SO THAT THE 150 VOLT RED SCALE APPEARS IN WINDOW.

4. OHMMETER SCALE ADJUSTMENT WITH TEST LEADS OPEN — Pointer should line up with division marked “0” on OHMS SCALE. Turn pointer zero adjust screw if necessary. Fig. #19.

HOW TO USE THE DAYTON AS AN OHMMETER

WITH TEST LEADS SHORTED — Line up pointer with “0” mark on ohms scale by turning small black mark on right side of DAYTON. Fig. #20.

NOTE: If ohmmeter zero adjust knob does not line pointer up on zero mark, replace battery with a new one.

5. TO MEASURE RESISTANCE between any two points on a device, apply clip leads and read pointer on ohms scale.

CAUTION — Make certain that circuit is disconnected from line before taking any resistance measurements. The battery case is fused to prevent damage to the meter if line voltage is used accidentally. Fig. #21.

HOW TO READ OHMMETER SCALE

The ohmmeter scale is located on the flat plate to the right of the window. The zero mark (beginning) is on top of the scale while the infinity mark (end) ends the scale.

HOW TO INSTALL FUSE AND BATTERY

Unscrew base of ohmmeter battery/fuse attachment. Insert fuse (Use Littelfuse Type BAG361, 1 Amp fast blow) and AAA battery (Cat. No. 912, not supplied) into probe end as shown in figure. Screw base on to probe.

OPERATING INSTRUCTIONS

ROTARY SCALE SNAP-AROUND

DAYTON VOLT-AMMETER-OHMMMETER

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Ranges</th>
<th>Volts, AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>4X221*</td>
<td>0.6/15/40/100/300</td>
<td>0-150/300/600</td>
</tr>
<tr>
<td>5X227*</td>
<td>0.15/40/100/300/1000</td>
<td>0-150/300/750</td>
</tr>
</tbody>
</table>

*Ohmmeter Range: 25 ohms mid-scale.
Continuous duty up to 200 amps. Intermittent duty (1/2 minutes maximum) above 500 amps

NOTE: For purposes of explanation, these instructions are based on the ranges of the DAYTON model 4X221. The same instructions apply to the model 5X227 except for the difference in ranges.

DAYTON ELECTRIC MFG. CO.
Chicago, Ill. 60648
DAYTON LIMITED WARRANTY

DAYTON Test Equipment is warranted by Dayton Electric Mfg. Co. (Dayton) to the original user against defects in workmanship or materials under normal use and rental use excluded. For 90 days after date of purchase.

Any part which is determined to be defective in material or workmanship and returned to an authorized service location at Dayton's discretion, shipping costs prepaid, will be repaired or replaced at Dayton's option. For warranty claim procedures, see Prompt Disposal Notice. This warranty gives the purchaser specific legal rights and to the extent permitted by law, any implied warranties of merchantability or fitness for a particular purpose are limited in duration to the limited warranty provided above. Some jurisdictions do not allow limitation of implied warranties so the above limitations may not apply to you. Dayton has no obligation for any inconvenience, loss of time, or loss of profit which may occur due to the failure of this product to operate as described.

WARRANTY DISCLAIMER: Dayton has made a diligent effort to illustrate and describe the products in this literature. However, such illustrations and design are for the sole purpose of identification and do not express or imply a warranty that the products are merchantable or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions. If need be provided below no warranty exists in the event of damage or failure of any kind, whether by misuse, alteration of fact, or repair or replacement. Dayton's sole liability is limited to the repair or replacement of the product. Certain claims of liability are not applicable to consumer products, e.g., all claims of liability for defective workmanship or design or for loss of time or other inconvenience attributable to the product.

IMPORTANT: The jaws of clamp-on instruments should not, under any circumstances, be used as a device to hold the instrument. When using a clamp-on as a voltmeter or ammeter never clamp the jaws around or on to a conductor, bus or anything else—conducting or non-conducting.

NOTE: Before using any electrical instrument or tester for actual testing, the unit should be checked on a known live line to make certain it is operating properly.

CAUTION

When using the DAYTON Snap-Around Volt./Ammeter/Ohmmeter make sure that the battery attachment case is REMOVED FROM THE INSTRUMENT before measuring volts or amperes. The instrument is cesed to help protect it against a misapplication of voltage but under certain conditions it is still possible to damage the meter and/or to obtain incorrect readings. See pages 4 and 5.

1. RELEASE POINTER BY MOVING POINTER LOCK BUTTON TO LEFT

1. POINTOFER LOCK BUTTON BUTTON (Pointer is free when button is at left) Always store in this position.

2. TURN ROTARY SCALE SELECTOR UNTIL HIGHEST CURRENT RANGE APPEARS IN WINDOW—300 AMPS

3. PRESS TRIGGER BUTTON TO OPEN JAWS

4. ENCIRCLE ONE CONDUCTOR WITH THE TRANSFORMER JAWS

5. IF POINTER INDICATES BELOW 100 AMP SET ROTARY SCALE SELECTOR TO NEXT CURRENT RANGE — 100 AMP SCALE.

6. REPEAT UNTIL READING IS OBTAINED ON THE UPPER HALF OF SCALE.

7. INSERT SAFETY RAYONET TYPE VOLTAGE TEST LEADS INTO VOLT. AGE RECEPACTIES AT BOTTOM OF 4X221. PUSH AGAINST RECEPACTIE SPRING AND TWIST TO LOCK IN PLACE.

8. TURN ROTARY SCALE SELECTOR UNTIL HIGHEST VOLTAGE RANGE—400 VOLTS—APPEARS IN WINDOW.

9. CONNECT ONE ALLIGATOR CLIP TO ONE SIDE OF LINE, THEN WITH METER IN ONE HAND TOUCH THE OTHER SIDE OF THE LINE WITH THE ALLIGATOR CLIP. IF VOLTAGE DOES NOT EXCEED 600 VOLTS, ATTACH SECOND ALLIGATOR CLIP AND READ VOLTAGE ON RED SCALE MARKED 600 VOLTS.

4. IF VOLTAGE IS BELOW 150, ROTATE SCALE SELECTOR UNTIL THE 150 VOLT RANGE APPEARS IN WINDOW ON THIS SCALE.

HOW TO OPERATE THE DAYTON FOR VOLTAGE READINGS (All voltage ranges are printed red)

1. INSERT SAFETY RAYONET TYPE VOLTAGE TEST LEADS INTO VOLT. AGE RECEPACTIES AT BOTTOM OF 4X221. PUSH AGAINST RECEPACTIC SPRING AND TWIST TO LOCK IN PLACE.

2. TURN ROTARY SCALE SELECTOR UNTIL HIGHEST VOLTAGE RANGE—400 VOLTS—APPEARS IN WINDOW.

3. CONNECT ONE ALLIGATOR CLIP TO ONE SIDE OF LINE, THEN WITH METER IN ONE HAND TOUCH THE OTHER SIDE OF THE LINE WITH THE ALLIGATOR CLIP. IF VOLTAGE DOES NOT EXCEED 600 VOLTS, ATTACH SECOND ALLIGATOR CLIP AND READ VOLTAGE ON RED SCALE MARKED 600 VOLTS.

4. IF VOLTAGE IS BELOW 150, ROTATE SCALE SELECTOR UNTIL THE 150 VOLT RANGE APPEARS IN WINDOW ON THIS SCALE.

HOW TO OPERATE THE DAYTON FOR CURRENT READINGS (cont'd)

5. IF POINTER INDICATES BELOW 100 AMP SET ROTARY SCALE SELECTOR TO NEXT CURRENT RANGE — 100 AMP SCALE.

6. REPEAT UNTIL READING IS OBTAINED ON THE UPPER HALF OF SCALE.

HOW TO READ THE SCALE

Let us assume the pointer is at the position indicated in the illustrations. The reading will be as follows, depending on the setting of the range selector.