

3 Phase Cable Identifier Operating Instructions



The 3ID 3 Phase Cable Identifier includes a SENDER and RECEIVER for identifying individual conductors in 3 phase overhead or underground cable installations.

IMPORTANT SAFETY INFORMATION

Read and understand these instructions prior to use. These operating instructions are not a substitute for proper training in the use of this equipment.

- Cables and conductors to be tested must be deenergized and discharged on both ends before connecting the 3ID.
- Test the 3ID before each use for proper operation and a good battery and inspect all test leads for physical damage.

TEST BEFORE EACH USE

Connect the SENDER leads to the RECEIVER leads: A to A, B to B, C to C and RETURN to RETURN.



Turn both units ON by pressing the ON button and verify A B C and Battery lights are all on. Replace the battery if either unit does not pass this test.

CONNECT SENDER TO ONE CABLE END

Connect one SENDER lead to each phase conductor. Connect green RETURN lead to cable neutral. Turn the SENDER ON. Any phase conductor shorted to cable neutral will turn on the SHORT light.



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CONNECT RECEIVER TO OPPOSITE CABLE END

Connect one RECEIVER lead to each phase conductor. The green RETURN lead connects to cable neutral. Turn the RECEIVER ON. In phase indications will appear for each phase on both SENDER and RECEIVER. Rearrange RECEIVER leads as required until all phase indications are on.

Use the ON/OFF Verify button to turn the SENDER and RECEIVER quickly on and off as needed to signal from one cable end to another.

Turn SENDER and RECEIVER off after use. *These units do not shut off automatically.*

TESTING CABLES WITH BROKEN OR MISSING NEUTRALS

For testing three phase conductors without a continuous neutral or ground connection from one end to the other:

- Connect the SENDER leads A and B to two of the three phase conductors. Connect the RETURN lead to the third conductor.
- Connect the RECEIVER leads A, B and RETURN as needed on the three phase conductors until the A and B lights turn on.

With the A and B lights on, the RETURN lead will be on the C conductor.

BATTERY REPLACEMENT

Remove the outer rubber boot and access the battery compartment through the door on the back of the unit.



SPECIFICATIONS

Operating Voltage: 38VDC Maximum

Operating Temperature Range: -40°F to +120°F (-40° to 49°C)

Battery: 9V alkaline 1604A, IEC 6LR61 or 9V lithium, ANSI-1604LC

CALIBRATION & TESTING: Regular calibration of the 3ID is not required. There is no calibration adjustment.

SERVICE: Return to HD Electric Company for service.

HD Electric Company is committed to ongoing review and improvement of its product lines, and thus reserves the right to modify product design and specifications without notice. HD Electric Company products are available through HDE sales representatives worldwide.

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