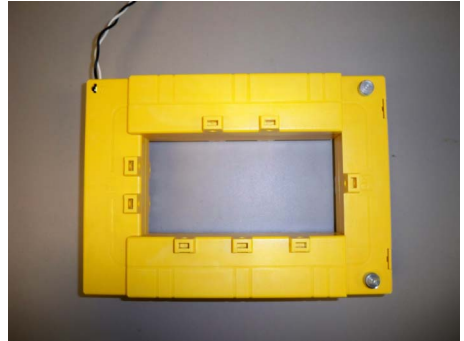


Honeywell

E-Mon Fully Encapsulated Split-Core Current Sensors

FOR USE WITH E-MON CLASS 3200, CLASS 3400 AND CLASS 5000 METERS

INSTALLATION INSTRUCTIONS



CURRENT SENSOR ASSEMBLY

(For Use with E-Mon Class 3200, Class 3400 and Class 5000 Meters)

100A through 800A Current Sensors

For each phase being monitored, you will need (1) two piece current sensor assembly. (A three-phase meter will require (3) current sensor assemblies.)



31-00029-02

1. Open the two piece current sensor assembly by pulling the core pieces straight apart. (See Fig. 1, and Fig. 2.)



Fig. 1.



Fig. 2.

IMPORTANT NOTE

Core Pieces are matched and keyed. (See Fig. 3.) Do Not mix and match core pieces. When Re-Assembling insure core pieces are oriented properly. Failure to do so can result in Current Sensor Damage.



Fig. 3.

2. Place the Large core piece around the conductor to be monitored.

IMPORTANT NOTE

Label indicating "THIS SIDE TOWARD SOURCE" must be oriented toward the source side of the conductor. (See Fig. 4, and Fig. 5.)



Fig. 4.

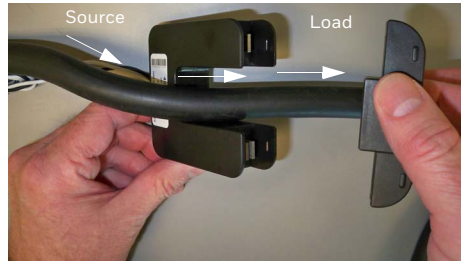


Fig. 5.

3. Orient the small core piece so that it will slide into the large core piece, making sure core keys are properly aligned. Apply pressure to the small core piece until it fully engages with the large core piece detent. (See Fig. 6, Fig. 7.)
4. Current Sensor Secondary wiring (Black and White wires) can now be connected to Honeywell E-Mon meter terminal block. Refer to meter installation manual.



Fig. 6.

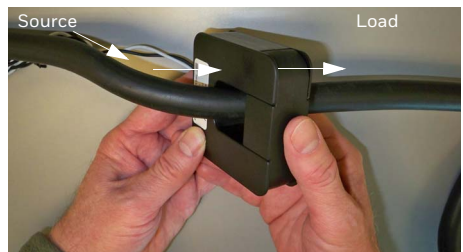


Fig. 7.

1600A Current Sensors

Prior to Installation, remove sensors from packaging. 1600A Fully Encapsulated Sensors include hardware to secure the sensor for Buss Bar installation. Fully Encapsulated Sensors may be used on insulated conductors, such as 2000 MCM etc. The Buss Bar installation hardware can then be discarded.

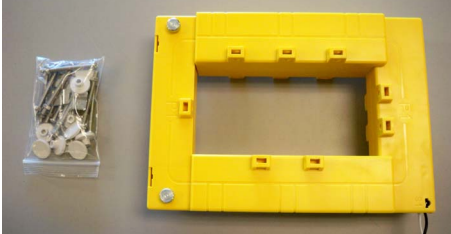


Fig. 8.

For each phase being monitored, you will need (1) two piece current sensor assembly. (A three-phase meter will require (3) current sensor assemblies.)

1. Open the two piece current sensor assembly by removing the (2) knurled securing nuts from the threaded metal pins. Apply pressure to the (2) core pieces and remove both threaded metal pins. (See Fig. 9, and Fig. 10.)



Fig. 9.



Fig. 10.

IMPORTANT NOTE

Core Pieces are matched. Do Not mix and match core pieces. When Re-Assembling insure core pieces are oriented properly. 1600A Current Sensors have embossed identifiers molded into the plastic covers. (See Fig. 11.) For Maximum accuracy insure that the "P1" labeling on each core piece match.

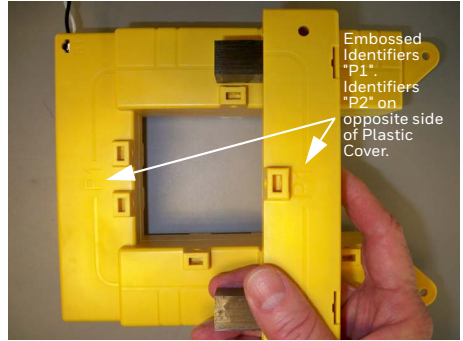


Fig. 11.

2. Place the Large core piece around the conductor to be monitored.

IMPORTANT NOTE

Embossment side "P1" of Current Sensor must be oriented toward the source side of the conductor. (See Fig. 12, and Fig. 13.)



Fig. 12.

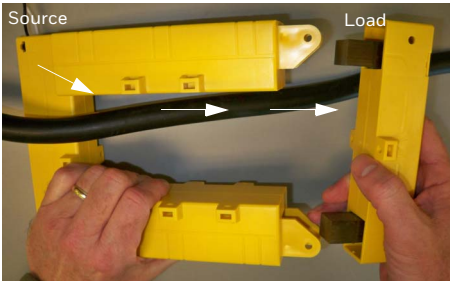


Fig. 13.

3. Orient the small core piece so that it will slide into the large core piece. Apply pressure to the small core piece until it fully engages with the large core piece. (See Fig. 14, Fig. 15.)

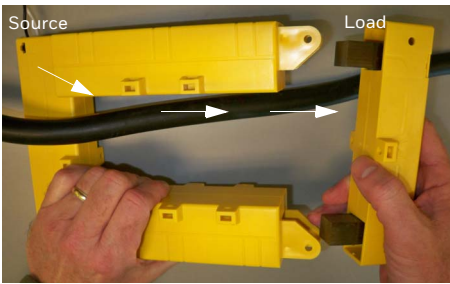


Fig. 14.



Fig. 15.

4. Hold small core piece in place. Re-install each threaded metal pin. Secure threaded metal pins by re-installing (2) knurled nuts. (See Fig. 16, Fig. 17.)

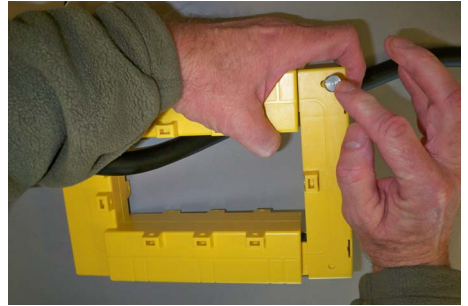


Fig. 16.



Fig. 17.

5. Current Sensor Secondary wiring (Black and White wires) can now be connected to Honeywell E-Mon meter terminal block. Refer to meter installation manual.

IMPORTANT NOTE

When paralleling current sensors, refer to meter installation manual.

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