

## Installation instructions for **EKM METERING**

### **Electrical Wiring**

EKM-15IDS(-N) and EKM-25IDS(-N) kWh meters.

**DISCONNECT, OR TURN OFF, POWER** to the wires being worked on!!

Select an appropriate location for the meter. Keep in mind that most electrical codes don't allow exposed wiring. The meter should be mounted in a suitable enclosure. Use a rain-tight or waterproof enclosure if mounting outside. To prevent exposed wiring, suitable conduit, either rigid or flexible, may be used. The easiest way to attach the meter to whatever solid backing is provided is with 35mm DIN-rail.

If you are installing the EKM-15IDS 120 volt, 2-wire meter, the wires to be metered will be a neutral (usually white) and a "hot" (usually black or red). If you are installing the EKM-25IDS 120/240 volt, 3-wire meter, the wires to be metered will both be "hots" (usually a black and a red). These wires will be passed completely through the tubes in the meter body as in this photo:



Depending on your circumstances, either disconnect or cut the wires to be metered. If necessary, splice on extra wire length according to good electrical wiring practices. The re-routed wires will have to pass through the meter so that current flows toward the loads being metered, in the direction of the arrows on the meter body. Use the provided centering bushings if your wiring will fit through the bushings.

Once these wires are correctly located, tighten the 2 screws which penetrate the wire insulation and pick up power for the meter's operation.

The meter wiring can be completed and then the meter can be latched onto the DIN-rail once all electrical connections have been made. (And network connections if you are installing "Smart" meters)



Turn the power back on only when all connections and mounting are complete.