

How to calibrate properly Shelly 3EM with a neutral Current Transformer (CT)

–Update the Shelly 3EM device to fw 1.12 or higher, where the functionality for neutral CT is supported. Then proceed with the following steps:

1. Lock N clamp also to phase A, don't unlock original A clamp.
2. Choose Transformer calibration in settings to calibrate N from A
3. If calibration fails, reverse N clamp and try again.
4. When calibration is successful move N clamp to Neutral wire.

Usage:

Determine the difference between the total current passing through the three phases and that of the neutral wire. You can get this number in NEUTRAL CURRENT MISMATCH.

If the difference gets bigger you will see the deviation in the interface. This can mean:

1. Unbalanced phases
2. Leak or malfunction in the installation
3. Theft of electricity

ATTENTION: Use only 120A Shelly clamps for correct measurement. Using third party clamps can destroy the device.