Firmware Update for 3-Phase zappi on Single-Phase Supply

Overview

This update enhances the functionality of the 3-phase zappi when installed on a single-phase supply, enabling the use of CT2 and CT3. Previously, only CT1 was operational in single-phase installations. This update now allows all three CTs to monitor additional energy sources such as solar, load, or storage circuits.

Key Benefits

Expanded Monitoring:

CT2 and CT3 can now be used on 3ph zappi when installed on a single-phase supply, enabling multiple energy circuits to be monitored simultaneously.

Auto-Detection:

The zappi automatically detects the supply type (single-phase or three-phase) and adjusts CT functionality accordingly – see below Technical Considerations.

Enhanced Admin Portal Visibility:

Improved visibility for monitoring and setup in the admin portal for single-phase installations.

CT Functionality:

New requirements when installing a 3ph zappi on a single-phase supply:

• CT1: Bi-directional readings.

• CT2: Uni-directional readings
(typically used for generation or solar monitoring).

• CT3: Bi-directional readings.

Important: The CT setup must adhere to these new configurations for proper monitoring.

Product Labelling:

A new label will be introduced, indicating that the zappi is compatible with both single-phase and three-phase supplies.

Technical Considerations:

Transition from 3-Phase to a Single-Phase Installation:

CT Auto-Adjustment

• If all CTs (CT1, CT2, CT3) were set to the same group (none, generation, or storage), no changes will occur.

– Gen, Gen, Gen = Gen, Gen, Gen

• If CTs are configured to anything other than the above, the system will automatically set CT1 as the primary option and none for CT2 and CT3.

– Grid, Grid, Grid = Grid, None, None

Transition from Single-Phase to a 3-Phase Installation:

• If one CT is set to an energy group and the other two are set to "none," the system will set all three CTs to match the active one.

– Grid, None, None = Grid, Grid, Grid

• If all three CTs are already configured similarly, no changes will occur.

– Storage, Storage, Storage = Storage, Storage, Storage

• If each CT is configured differently, all CTs will be set to "none," and the installer will need to manually choose and complete the setup.

– Grid, Solar, Battery = None, None, None