

# CalinMeter

We got the API docs here: [Calin API for NFE.postman\\_collection.json](#)

## User Manuals

- [User instructions for the CA168-S Single-phase electricity meter \(1\).pdf](#)
- [CA168 Din Rail Meter- Technical Specification \(1\).pdf](#)
- [Installation Guide - Calin LoraWAN Smart Meters.pdf](#)

# ? CalinMeter Status Codes – Postpaid Quick Reference & Action Guide

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## ? Common Meter Status / Short Codes (Postpaid Use)

Code	Meaning	Action
01	Cumulative total active kWh consumption	Record/check usage trend
14	Load threshold	Compare with customer load, adjust if configured too low
31	Current total active power	Check load at moment of query
35	Current total power factor	If persistently low, investigate load/PF correction
40	Number of meter cover open events	Check tamper log; reseal if necessary

Code	Meaning	Action
41-45	Last 1st-5th cover open times	Verify tamper history
46	Number of overload trip events	Review load demand; advise upgrade if frequent
47-51	Last 1st-5th overload trip times	Identify when overloads occurred
52	Number of power down events	Check supply reliability
53-57	Last 1st-5th power down times	Cross-check with outage records
58	Number of phase down events	Investigate supply-side issues
87	Reason for relay disconnecting	Use table below for action

(Codes related to credit/tokens are ignored in postpaid setups.)

Perfect — let's build a **lookup table** that maps your AMI responses (1000-1025) directly to the **Code 87 disconnect sub-codes**, with **meaning** and **field action** tailored for **postpaid deployments**.

## ? AMI Operating Status Code Lookup (Postpaid Mode)

AMI Code	Code 87 Sub-Code	Meaning	Field Action
<b>1000</b>	00	Relay Closed (normal supply)	☐ No action, meter supplying load.
<b>1001</b>	1	No Credit	<i>(Ignore in postpaid)</i> — not applicable.
<b>1003</b>	3	Over Power (load exceeded threshold)	Check load vs. configured trip limit; advise reduction or adjust threshold.
<b>1004</b>	4	Relay Test	No action needed — relay was tested.
<b>1005</b>	5	Open Upper Cover (tamper)	Reseal cover + enter clear tamper token.
<b>1006</b>	6	Open Terminal Cover (tamper)	Reseal cover + enter clear tamper token.

<b>AMI Code</b>	<b>Code 87 Sub-Code</b>	<b>Meaning</b>	<b>Field Action</b>
<b>1007</b>	7	Remote Disconnect	Confirm backend/HES instruction; reconnect if not intentional.
<b>1008</b>	8	Not-active (meter not commissioned)	Commission meter (default code: 12345).
<b>1009</b>	9	Over Current	Inspect load for surges; advise customer or adjust protection.
<b>1011</b>	11	Over Voltage	Supply voltage too high; report to utility/feeder operator.
<b>1012</b>	12	Under Voltage	Supply voltage too low; report to utility/feeder operator.
<b>1013</b>	13	Current Reverse (possible tamper/wiring issue)	Inspect wiring; correct polarity; clear tamper if needed.
<b>1014</b>	14	Open Enclosure Cover (tamper)	Reseal + enter clear tamper token.
<b>1015</b>	15	Magnetic Field Interference (tamper)	Investigate possible magnet tampering; clear tamper.
<b>1016</b>	16	Current Imbalance	Check for abnormal phase imbalance; troubleshoot load.
<b>1017</b>	17	Neutral Line Interference	Inspect neutral wiring/tamper.
<b>1018</b>	18	Bypass (illegal connection)	Investigate and escalate if confirmed.
<b>1021</b>	21	Voltage Imbalance	Investigate feeder phase imbalance.
<b>1022</b>	22	Thermal Overload	Meter overheating; check ventilation/load; allow cooling.
<b>1023</b>	23	Low Power Factor	Check load PF; recommend correction (capacitors).
<b>1024</b>	24	Tariff Error	Backend tariff configuration issue; escalate to AMI admin.
<b>1025</b>	25	Remote Reconnect + Local Trip	Local condition (e.g., overload/tamper) persists; troubleshoot before reconnection.

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## □ Key Notes for Postpaid Teams

- **Ignore credit-related codes** (1001, and codes tied to tokens/residual amounts).
  - **Focus on tamper (1005, 1006, 1014, 1015, 1018)**, load/power quality (1003, 1009, 1011-1013, 1016-1023), and backend issues (1007, 1024, 1025).
  - **Always check AMI Code → Action** before deciding if a site visit is required.
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Would you like me to now **regenerate the PDF reference card** with this full **1000-1025 lookup table** included, so your team doesn't need to flip between guides?

## □ Quick Action Guide Summary

- **Tamper-related (5, 6, 14, 15, 18)** → Reseal + enter clear tamper token.
- **Load/power issues (3, 9, 11, 12, 16, 21, 22, 23)** → Inspect loads and supply conditions; report or advise customer.
- **Backend-related (7, 24, 25)** → Confirm with HES/AMI admin.
- **Commissioning (8)** → Activate with code 12345.

# Examples

## Example #1

You query the meter for meter operating status and you get back this

Meter operating status



Meter operating status

1008

Close

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## Answer

**Meter operating status = 1008**

## Step 1: Interpret the Code

- In many AMI/CalinMeter integrations, codes like **1000** and **1008** map directly to **relay/disconnect statuses (Code 87 sub-codes)**.
- **1008 = Sub-code 8 under Code 87.**
- From the guide:
  - **8** → **“Not-active”** → *Meter not commissioned.*

## Step 2: What This Means in Postpaid Setup

- The meter is physically installed, but it hasn't been **commissioned**.
- In this state, the meter will **not supply power**, regardless of load or tariff configuration.

## Step 3: Field Action (from Quick Action Guide)

- **Action:** Commission the meter using the **commissioning token/code**.
  - Default commissioning code is **12345**.
  - Enter this via the CIU (Customer Interface Unit) or backend if supported.
- Once successfully commissioned:
  - Tamper detection is activated.
  - Relay will close and supply will start flowing.

### ☐ Summary:

Your AMI response of **1008** means **“Meter not commissioned.”**

☐☐ To resolve: Enter **12345** (or your site-specific commissioning token) on the CIU/backend to activate the meter.

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## Example #2

## Meter operating status



Meter operating status

1000

Close

## Answer

Great — let's now map **1000** through the same guide.

Case: Meter operating status = 1000

### Step 1: Interpret the Code

- In the AMI integration, **1000** corresponds to **Code 87 sub-code 00**.
- **00** → **“Relay Closed”**.

### Step 2: What This Means in Postpaid Setup

- The meter is **active and commissioned**.
- The **relay is closed**, meaning the meter is supplying electricity normally.
- No tamper or abnormal condition is blocking supply.

### Step 3: Field Action (from Quick Action Guide)

- **Action:** No intervention needed.
- Record this status if troubleshooting, since it confirms the meter is healthy and delivering power.

### ☐ Summary for your case:

Your AMI response of **1000** means **“Relay Closed - supply ON.”**

☐ Everything is normal; no technician action required.

↗ So together:

- **1000 = Relay Closed (meter supplying power)**
- **1008 = Not-active (meter not commissioned; activate with commissioning code)**

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