

setup a single phase prepayment energy meter sts from smartech with my application. now we know the apartment wire connection has to be done by an expert first but then we want to connect it to our application. so from a new meter, i need the info from the meter how to get meter number e.t.c

If you're integrating a **single-phase STS prepaid energy meter from Smartech** into your own application, there are two separate parts:

- 1. Electrical installation and wiring** (must be done by a qualified electrician).
- 2. Application integration and meter data access** (meter number, token vending, consumption data, etc.).

To determine how to connect the meter to your application, the most important question is:

What exact Smartech meter model do you have?

Different STS meters expose data differently:

- Some only support STS token entry and have no communication interface.
- Some have an optical port for configuration.
- Some support RS485/Modbus.
- Some support PLC, RF, GPRS, NB-IoT, LoRaWAN, or Wi-Fi.
- Some communicate through a separate Customer Interface Unit (CIU).

For a brand-new meter

Typically, you can obtain the meter number from:

- The label/sticker on the meter body.
- The barcode/QR code on the meter.
- The commissioning documentation supplied with the meter.
- The utility management software if the meter was pre-registered.

The meter number is usually printed clearly and is often 11–13 digits (varies by manufacturer).

How to read the meter number electronically

This depends on the communication protocol:

Option 1: DLMS/COSEM

Many modern prepaid meters support DLMS/COSEM.

You would:

1. Connect through the optical port or communication module.
2. Authenticate.
3. Read identification objects such as:
 - Meter serial number
 - Manufacturer
 - Firmware version

Option 2: Modbus

If the meter has RS485:

1. Connect an RS485 adapter.
2. Read the Modbus register map.
3. Retrieve:
 - Meter serial number
 - Current credit
 - Energy consumed
 - Voltage/current

Option 3: Vendor API / Head-End System

Some Smartech deployments use a central vending server. Your application would call:

- Meter registration APIs
- Token generation APIs
- Balance APIs
- Consumption APIs

Information you need from the meter manufacturer

For application integration, request:

- Meter model number
- Communication method
- Protocol specification
- Modbus register map (if Modbus)
- DLMS OBIS list (if DLMS)
- STS vending integration guide
- API documentation (if cloud-connected)
- Security credentials and keys

Typical onboarding flow

For a new apartment:

1. Electrician installs meter.
2. Record:
 - Meter serial number
 - Meter model
 - Apartment ID
3. Your backend creates a meter record.
4. Link:
 - Apartment ↔ Meter Number
5. If using STS vending:
 - Register meter in vending system.
6. Application can then:
 - Display balance.
 - Show consumption.
 - Purchase tokens.
 - Track recharge history.

To give precise integration steps, send:

- The exact Smartech meter model number (photo of the front label is best).
- Whether it has RS485, optical port, Wi-Fi, GSM, or a CIU.
- Whether you already have vendor documentation.

With that information, I can explain exactly how to obtain the meter number and connect it to your application.

