



**sip**

**INTELLIGENT SANYO VRF SYSTEM**



**SANYO**

Direct Web Control  
BMS Compatible  
Energy Metering

... for VRF  
... for the environment & energy saving  
... for ease of use & engineering

Commercial    Public Sector    Retail



**Synapsys Solutions Ltd** has developed the new Synapsys IP (SIP) Sanyo system that allows the integration of the BMS and Sanyo VRF systems onsite with added enhancements such as direct web control of all key functions and sophisticated energy metering for billing and usage



## ...for Sanyo VRF BMS

The Sanyo SIP easily integrates with the Sanyo Energy System including full BMS Interface with Trend & Cylon. The interface is through Modbus open protocol and all key system and operating parameters can be viewed and/or changed.

- Indoor Unit Enabling
- Temperature Setting
- Setpoint
- Mode
- Fan Speed
- Louvre Position
- Fault Code
- Filter Dirty Alarm
- Prohibition of Remote Controller



## ... for Sanyo VRF Energy Metering

Energy usage has now become a priority for us all. The effect it has on our planet, the increasing costs involved and government legislation mean that a reduction in usage can provide significant benefits not only to the environment we live in but to the running costs of a building.

As an enhancement to Direct Web Control the SIP Sanyo Energy option offers **Virtual Metering** and **Energy Reporting & Billing**

- Supports gas and electric outdoor units
- Tariffs can be easily entered and changed  
*Available tariffs - Euros, Sterling & Dollars*
- Tenancy configuration can easily be changed
- Billing and Energy reports can be stored for up to 24 months

### **Key benefits of Virtual Metering include:**

- Sub metering of all energy usage, total and/or by individual area or tenant
- The ability to create reports to support individual responsibility for payment and usage of energy
- Information to support introduction of targets for energy reduction



# INTELLIGENT SANYO VRF SYSTEM



## ...for Sanyo VRF Direct Web Control

The Direct Web Control option allows web access for all key system and operating parameters plus additional enhanced features:

### Additional Control Features

- Firemans Switch Override
- Fabric Protection
- Remote Control Prohibition
- Temperature Plots
- Time Schedules - *Normal & Holidays*
- Email of alarm events
- Alarm log
- Individual labelling of units
  - Unit addresses to engineer the system
  - Room numbers for **Hotels**
  - Specific labels for **Tenant Areas**

### Floor Plan Graphics

Graphics show all indoor units and their status and enables the user to:

- Group units by tenant, by room or by floor
- Global switching of indoor units by tenant, by room, by floor, by AMY or the complete system

Direct Web Control also offers full security administration options including change of users and passwords.

No special software required

No special user training required

Versatile & intelligent communication capability

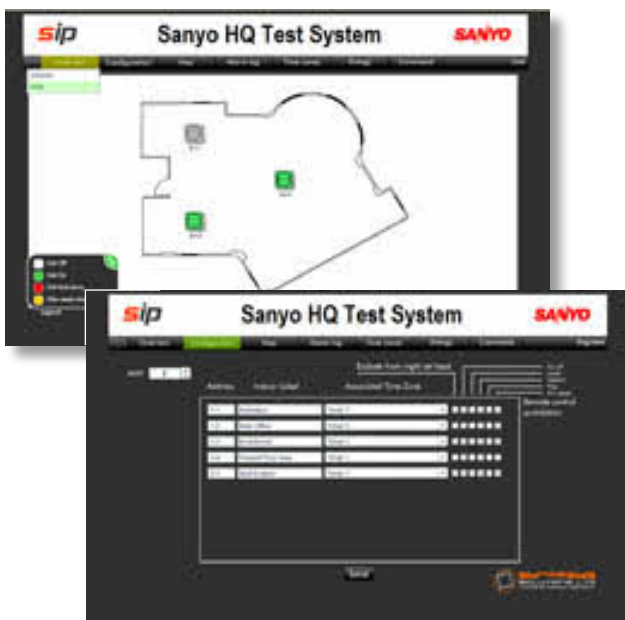
Trend/BMS compatible

Direct Web Control

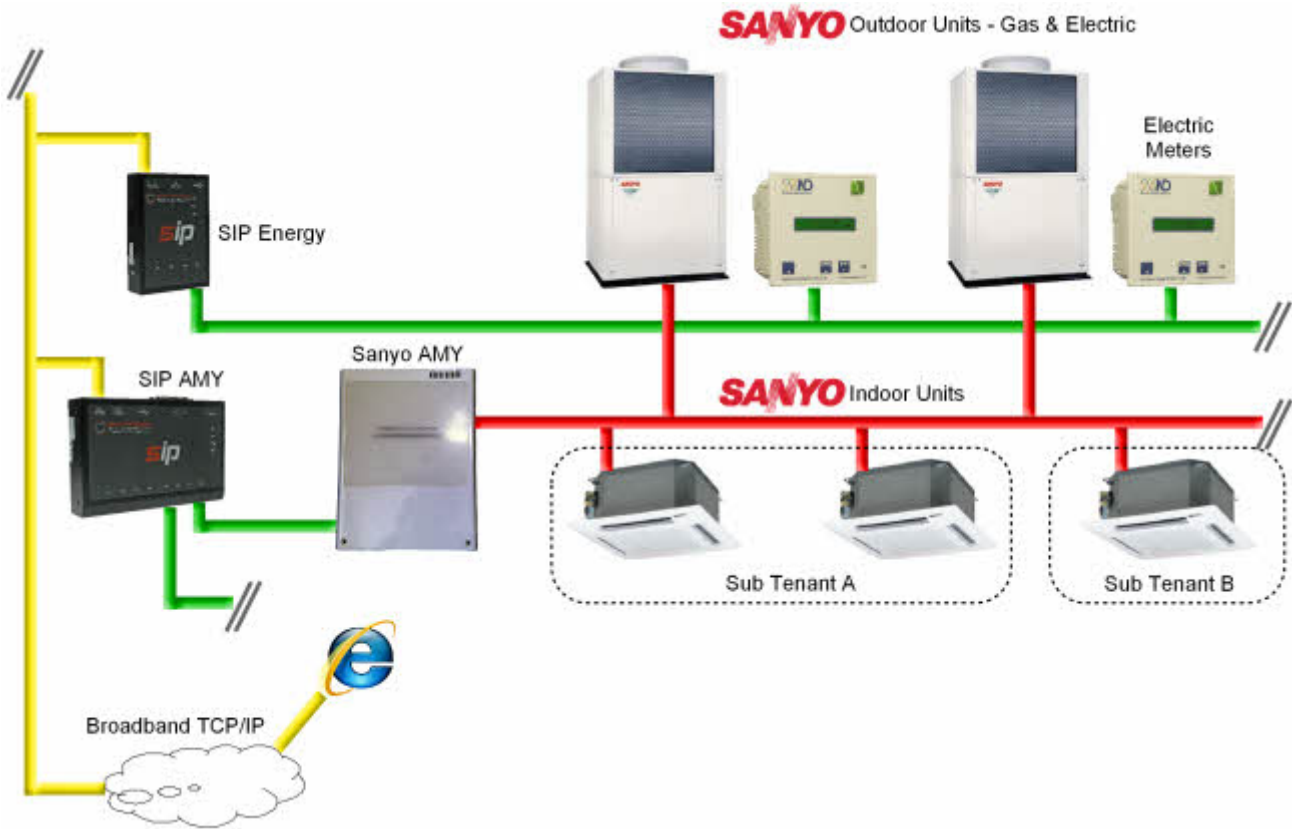
Set up instructions within SIP commissioning

SIP Virtual Metering

- Energy monitoring
- Sub-metering
- Control
- Billing



## Example System Architecture



For SIP Sanyo Product Code options, further information, quotes or a demonstration covering BMS, Web Control, Energy & Billing please contact your Sanyo Distributor or Synapsys Solutions Ltd.