

Vision 49

The Vision 49 solar hot water cylinder control and monitoring system is based on metering and communications technologies developed over a period of more than 7 years, taking into account several years of practical experience on manufacturing, installing, commissioning, operating and maintaining Smart Meter installations in some of the harshest environments in the world.

The Vision 49 GC is based on the framework of NRS 049 definition of a load switch, with some further enhancements and functionalities.

The house installation consist of electricity metering, temperature sensors, flow sensor, processing and communications equipment.

Key Features

- Enables calculation of actual energy saved (not estimated)
- Technology optimized design to get best fit between Functionality, Performance, Expandability as well as Capex and Opex costs
- Load control via schedules or on demand
- Remote water temperature setting
- Geyser element failure detection
- Full AMR capabilities for geyser consumption statistics, carbon credit calculations etc
- Can be expanded to full NRS049 for house consumption
- Bypass detection
- High level of automation and built in audit functions to ensure accurate data accumulation during installation and commissioning and data maintenance during operation and maintenance.
- Close to real time technical checks of all components in the system and alarming once there are any exceptions (communications stats, no communications, cell active)
- Integrated with the GSM network; with meter readings as well as maintenance and tamper detection and actions using the GSM network
- Many standard reports for operation, maintenance and load control functions with the ability to write customized reports in record times
- Reduction of overheads and reduction of admin burden through scheduled automatic tasks such as automatic meter reading and load shedding
- Distributed processing and high level of processing ability in Cell concentrators allows lower communications costs and lower burden on Central



Block Diagram

