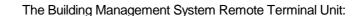
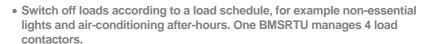
## **Building Management System and Load Control**

## **BMSRTU** Building Management System Remote Terminal Unit.

Manage your building's electricity consumption remotely, intelligently, through the web, and see the results within a day.





- Simple manual schedule override button for after-hours work, stock taking or shop fitting.
- Pre-programmable Load Schedule Timer function is restored automatically after a manual schedule override.
- The manual override can be cancelled at any time with a second button, if the work is finished before the bypass timer has expired.
- For each load contactor, the BMSRTU has a timer functionality that automatically switches the loads according to a 7 day load schedule.
- The BMSRTU integrates seamlessly with the Plug and Play Scada smart metering system with appropriate communication devices.
- PnP Scada makes it possible to manage the load scheduling remotely using criteria like time zones and holidays.
- The load schedule and bypass times can also be set up locally and/or remotely through the Human Machine Interface (HMI) for longer working hours or scheduled maintenance work.
- Time spent in bypass mode is logged for each individual load.
- Participation in the new ESKOM Demand Response Rewards Program becomes possible.
- $\bullet$  On average a saving of 1,8 tonne CO $_2$  emissions were achieved over a period of 30 days per one BMSRTU. Note: Calculated across 35 units installed in 11 shops.



The SDG BMSRTU forms part of the SDG Technologies range of power metering, control and communication products.

When a store attendant pushes the Bypass button, the timers are bypassed for a pre-programmed time, enabling the store personnel to carry out after-hour work. Unlike manual bypass switches, the BMSTRU cannot be left in the bypass position permanently, protecting the investment in the installed timer system, enabling huge savings in electricity to be realized.

The BMSRTU can communicate remotely to any Modbus Master software, and is specifically designed to communicate to the Plug and Play Scada remote metering software system, enabling remote alteration of the load scheduling program. Apart from changing the load schedule according to sales and maintenance schedules, public holidays and time of year, this opens up the possibility to participate in the Demand Response Rewards Programme of ESKOM and reducing your carbon footprint.





## **Specifications**

Electrical  4 outputs are provided to drive contactor coils or other control inputs.  Type of switch
Serial interface Two serial interfaces are provided, an RS232 and a RS485 output. Both use identical protocol and framing. Any one may be used depending on ease of application at a specific site.  Protocol
RS232 output  This is a modified Special RS232 output compatible with any RS232 device, but modified so that it can be multidropped with Elster Electrical meters with a simple RJ12 splitter. This will ease the installation of the BMSRTU communication where there are already Elster Electrical meters close by communicating with Plug and Play Scada  Maximum number of (Special) RS232 devices
RS485 output  Maximum number of RS485 devices
Indicators  Power (green)
Programming Pre-programmed bypass time
Power supply Voltage input
Physical Characteristics  Designed for mounting on the side (or top) of existing electrical panel  Footprint on panel side





## Pin-out of RS232 connector

The BMSRTU RS232 connector is a RJ12 connector. The pin-out is such that a simple 1 to 1 flat cable can be constructed to connect the BMSRTU RS232 port. The Connector can be used to connect a Kocos or BOL Modem directly to the BMSRTU. The pin-out of the RJ12 connector is as follows:

