



Editorial/White Paper

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Project:	Micro RTU	Client:	SSE
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SSE Launches Low-Power Telemetry System. (Runs between 4 to 5-Year on one battery)

SSE, has developed and launched a new Low-Power Telemetry RTU for use in applications where power and theft of solar panels is a major problem.

The Problem

SSE identified a market segment where a Low-Power RTU is of the utmost importance. Many applications such as Reservoir monitoring, flow station monitoring and logging, tank monitoring, don't need minute by minute monitoring.

Many Metro's, city councils, municipalities, water-boards, electrical councils and companies distributing products to the industry is in the need for a cost effective solution to do monitoring of these products, plants and other things over large distances. Not only must the unit be cost effective to acquire, but it must also be cost effective during the operation and running of a systems. Thus overall a cost effective system.

This is what SSE has developed, exactly what the market wanted.

The Solution

SSE developed a Low-Power micro-RTU with the following functionalities:

- 1) Eight Analogue Inputs (12 Bit resolution)
- 2) Eight Digital Inputs (With or with-out Opto Isolation)
- 3) 4 Power Digital Outputs that can switch 3-Amp for switching of communication mediums, instrumentation and other equipment during power save mode.
- 4) Two RS-232 ports.
- 5) One GSM Cell Modem on the micro-RTU (Which can be removed if to be used in Radio Applications)
- 6) If used in Low-Power mode, the unit switches off all peripherals on the RTU as well as selected instrumentation, if needed.
- 7) Depending on the rate of reporting of data to a master station, can the unit run on a battery between 4 and 5 years before replacement.
- 8) Most functionalities build into the bigger brother SSE-RTU-11 is incorporated in the micro RTU.
- 9) Can communicate using SMS, GPRS, Analogue Radios, Digital Radios, RS-232/485, etc.
- 10) Also has "PLC" programmability on it.
- 11) Can bus
- 12) And many other features.

Sales.

The market is ready for such a unit. Before the final launch of the unit, orders for a few hundred units were already placed on SSE.

One of the orders received was from the Tshwane Metro for the monitoring and logging of more than a 100 flow meter stations in and around Pretoria. The system will be running separately from the existing 120 SSE-RTU-10-Telemetry outstations already in use by the Metro.

This system will be running on battery on the GSM network using SMS. The unit will logg the data once a hour in the RTU and then switch the PSM on once a day to report the logged data. The unit, however, can be configured in any other user application mode as needed by the client.

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