

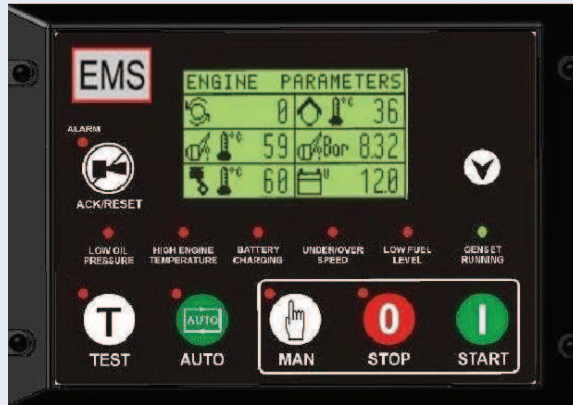


Integrated Electrical Asset Management for the Telecom Industry

The Telecom industry remains one of the fastest growing sectors of today's world, as a result, there is relentless competition and cost minimisation pressure. Day-by-day the number of telecom subscribers increase along with the number of telecom towers. In spite of growth in the telecom infrastructure industry, old problems associated with reliable power supply remain. Providing backup for electricity failure requires investment in batteries, generators and that expensive consumable, fuel. Managing the ever increasing system infrastructure becomes more and more complex.

Gensets

Telecom towers need reliable power 24x7 to ensure provision of seamless and uninterrupted telephony services and associated revenues. Many parts of India suffer with 15% under-supply of electricity on a daily basis and many others countries are without power for 20 hrs per day. In rural areas there is often no reticulated power at all, so the sites must be run on a generator, continuously. New technology DC gensets are finding favour in the rural applications due to reduced fuel consumption and hence lower operating



costs. Common issues for infrastructure management are fuel theft, fuel adulteration and prioritising fuel replenishment. Similarly site battery performance is critical and yet little is done to ensure integrity. Timely engine maintenance is essential and needs to be scheduled by actual demand rather than monthly review. Unsophisticated control systems do not cater to these issues.

Genset Management and Monitoring

There are a number of add-on asset management and monitoring devices available in the present market, which can

monitor the telecom sites remotely by monitoring various parameters of Battery and DG sets with ancillary equipment. However the controllers manufactured by Electronic Monitoring Solutionz Ltd (EMS) incorporate these functions already. Beyond the normal DG start / stop sequencing, engine / alternator / load operating parametrics and protections, EMS controllers

can be customised to address fuel management, battery integrity and maintenance schedules. Use of these products will help to reduce the overall operational cost. ⁽¹⁾



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