ABSTRACT

Magdalena Juliana Turnip, Installation of RS-232 To RS-485 Converter on AMF Deepsea 730 STO Bobotsari, 2022

The telecommunication business world is currently growing very rapidly due to the large data traffic capacity and demand for virtual world service users. Area Network Unit is one of the units of PT. Telkom, which works in the telecommunications sector, oversees and monitors electrical devices and virtualworld data network devices located at several site locations. In order to improve the quality of customer service so that customers are satisfied with the services provided,the Area Network Unit tries to present a monitoring issue method for monitoring all mechanical electrical devices at the site location (STO) so that there is no communication drop out of telecommunication services.

Osase (Operation Supervisory & Alert System for Electrical) is a site-based monitoring information method used by the Network Zone Unit to monitor andmaintain the reliable performance of electrical devices at each site location. However, the obstacles that can cause communication disconnection from telecommunication services can occur at any time, whether it is damage to mechanical electrical equipment or to the monitoring method.

As happened at the Bobotsari site, there was a problem with the Osase method so that the state of the power parameters, namely the voltage and electric current on the generator, was not detected in real time. There are two solutions to solve this problem, namely replacing Deepsea AMF or installing an RS 232 to RS 485 converter. However, the Zone Network Unit chose to install an RS 232 to RS 485 converter because it was seen froma more affordable cost efficiency

Keywords: Unit Area Network, Installation, Osase, Electrical Devices, Converter.