

ABSTRACT

Wireless Communication is currently a rapidly evolving technology especially development for underwater communication. Underwater communication is much in demand because it has many advantages in the future, some technologies that have been used for underwater communication include radio waves, acoustic waves, and underwater wireless optical communication. These three technologies have their characteristics both in frequency, application, and challenges of using the technology.

Underwater Wireless Optical Communication (UWOC) is more in demand because it offers higher data speeds with much lower power consumption, greater bandwidth capacity, and has lower difficulty than others. This study analyzed the performance of a system to transmit data with water transmission media.

The results obtained in this study are data analysis of several indicators. In a comparison of voltage and distance, there is a decrease in voltage in each distance increase with an average of 0.0605 V for baud rate 1200 Bps and 0.154 V for baud rate 9600 Bps. In a comparison of delay and distance, there is an increase in delay in each distance increase with an average of 0.964 s for baud rate 1200 Bps and 0.263 for baud rate 9600 Bps. In a comparison of angle and voltage, there is a decrease in voltage in each additional angle with an average of 0.012 V for a baud rate of 9600 Bps. angular comparison with delay occurs a decrease in delay in each angle increase with an average of 1.97 s for baud rate 1200 Bps and 0.6 s for baud rate 9600 Bps.

Keyword : Underwater, optic, communication