

IV. CONCLUSION

This section concludes the performance of remote-control distribution/design of valve control systems based on PLC / Android. The remote-control valve distribution system's working condition using PLC can be controlled remotely using Android by the operator. Using the HMI system on the PLC makes it more efficient and easier for the operators to monitor and control valve position. The PLC remote control and Android system design are very effective and efficient, making it easier for operators to maintain pressure stability on the distribution network for each PDAM without having to go to the location where the valve is located. The distribution of clean water flow is more stable, and there is an increase in the flow of 26.8 l/s, which initially averaged 144.4 l/s to 171.2 l/s. The distance control system reaches a distance of 10 kilometers with an average time of 1.2 seconds.

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