

MOXA SOLUTION ON VFD (VARIABLE FREQUENCY DRIVE) MONITORING APPLICATION

USING MOXA PROTOCOL GATEWAY FOR VFD SYSTEM MONITORING

APPLICATION:

Variable Frequency Drive Monitoring on Industrial Application

INDUSTRY:

Industrial Application

REGION:

Philippines

SYSTEM REQUIREMENTS

- Modbus Gateway with RTU Slave Mode capability.
- Industrial Grade and Rugged design to withstand harsh environmental conditions, such as high temperature and humidity.

WHY MOXA?

- All Moxa Protocol Gateways come with a 5-year warranty and long MTBF (Mean time between failures), making them ideal for mission-critical applications such as in Manufacturing plants.
- Moxa provides a complete solution of industrial networking solutions.

INTRODUCTION

I&CS, Inc. has been a leading instrumentation and control company. It offers a wide range of instrumentation products, automation and analytical systems and technical services to meet the industry's instrumentation and control requirements. I&CS has the solution for all the industry's needs including instrumentation and control system design, instrumentation maintenance, repair and calibration services, start-up & commissioning projects to industries, and instrumentation trainings.

CHALLENGE

At first, they tried to connect Powerflex 525 AC drive to Moxa NPort 5110A (serial to ethernet). No data can be polled from the VFD (variable frequency drive) to the SCADA software. Manila eTECH technical team tried to check the datasheet of the AC drive and found out that it is based on Modbus RTU protocol. That is the reason why there is no response from the Master query (SCADA) to the slave device (AC Drive).

MOXA SOLUTION

Manila eTECH offer them to use Modbus Gateway (Mgate MB3170) for their application. I&CS, Inc. tried to replace the NPort 5110A with MGate MB3170 and after which they can poll modbus data from the slave device (AC Drive). Moxa MGate MB3170 provide the solution with the capability of Modbus RTU Slave Mode that polls data from the AC Drive to the SCADA software. Moxa MGate MB3170 also is capable of withstanding high temperature (up to 75 degrees) and humidity. With the Moxa solution, the SCADA software can now obtain data at real time.

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MOXA SOLUTION

SCADA Software



Moxa MGate MB3170



PowerFlex 525 AC Drives



Legend:

- Modbus TCP/IP
- Modbus RTU(RS 485)