



This solution allows you to quickly realize a communication, configuration with the most used protocols: Ethernet TCP/IP, CAN open, serial Modbus. It should be designed to achieve learning objectives:

Features

- Configuring an industrial field network:
- Diagnosing a communication error.
- Scheduling.
- Defining a communication architecture.
- Choosing a communication medium.
- SCADA based system control and operation

Detailed Technical Specifications:

The SCADA-1 equipment to include:

- Slots Backplane – 1 Nos.
- 6 Slots Backplane – 1 Nos.
- Standard DC power supply – 2 Nos.
- Rack mounted expandable PLC with MODBUS CANOPEN protocols – 1 Nos.
- EtherNet/IP & Modbus TCP Module – 1 Nos.
- DIG 16I 24 VDC Sink – 1 Nos.
- DIG 16Q Relays – 1 Nos.
- ANA 4 IN U/I 2 OUT U/I – 1 Nos.
- Cage terminal strip 20 STD – 3 Nos.
- ConneXium Switch 8TX – 1 Nos.
- AC Drive 320, 0.37KW, 220 VAC – 1 Nos.
- Power Supply, 24VDC, 5 A – 1 Nos.
- HMI, 7 Inch, Colour – 1 Nos.
- Multifunction Meter – 1 Nos.
- 25A, 2P, 30mA RCCB – 1 Nos.
- 6A, 2P, MCB – 2 Nos.
- Contactor NO/NC – 1 Nos.
- Indicators – 8 Nos.
- Push Buttons – 8 Nos.
- 2 position put selector switch – 2 Nos.
- EMG.STOP – 1 Nos.
- 2 Stage tower lamp 240VAC – 1 Nos.

- MS fabricated enclosure – 1 Nos

The SCADA-2 equipment to include:

- ETHERNET/IP NIM Standard – 1 Nos.
- 24VDC PDM Standard KIT CONNS, BASE-1 Nos.
- 24VDC IN 16PT Basic KIT SCREW, BASE-1 Nos.
- 24VDC OUT 16PT Basic KIT SCREW, BASE-1 Nos.
- ConneXium Switch 8TX – 1 Nos.
- PLC, 24 DI, 16 DO Relay – 1 Nos.
- PLC Module, 4AI – 1 Nos.
- PLC Module, 4AO – 1 Nos.
- Power Supply, 24VDC, 5 A – 1 Nos.
- 10" HMI, touch Screen – 1 Nos.
- PM 3.5-digit LED display with Integrated DPM supply, 0-10V Converter with single turn variable resistor for range setting (Voltage Display) – 1 Nos.
- Potentiometer – 2 Set
- 25A, 2P, 30mA, RCCB – 1 Nos.
- 6A, 2P, MCB – 2 Nos.
- Contactor NO/NC – 1 Nos.
- Indicators – 10 Nos.
- Push Button – 10 Nos.
- EMG.STOP – 1 Nos.
- 2 Stage tower lamp 240VAC – 1 Nos.
- MS enclosure (fabricated) – 1 Nos.

Programming Softwares:

- SCADA Build and runtime software with 1000 tags - 1 user license

Electrical Charateristics:

- Supply Voltage: 230V ($\pm 10\%$)
- Frequency: 50/60 Hz $\pm 5\%$

Mechanical Charateristics:

- Dimensions: 690x400x795mm (WxDxH)
- Approximate Weight: 55 Kgs

Note: Specifications are subject to change.

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