

WG35

Modbus-DNP3 Gateway



affra

www.mashhadtadbir.com

WG35 is a high-performance industrial communication bridge designed to integrate Modbus-based devices into DNP3 SCADA environments. It collects real-time data from field devices and provides seamless protocol conversion for monitoring and control.

Applications

SCADA Integration

Connecting Modbus RTU devices to DNP3 SCADA centers.

Remote Monitoring

Real-time data collection from sensors and meters.

Protocol Conversion

Converting complex DNP3 commands (Pulse, Latch, Trip/Close) into Modbus functions.

Industrial Automation

Modernizing legacy infrastructure with standardized DNP3 Outstation capabilities.

DNP3 Features – Outstation Level 2

Data Points

512 Analog Inputs
256 Binary Outputs
256 Binary Inputs
128 Binary Counters

Operation Modes

Supports Class 0, 1, 2, and 3 data

Event Storage

Up to 1,000 Event storage capacity.

Messaging

Supports Unsolicited Messaging for efficient data reporting.

Commands

Support for Pulse, Latch, On/Off, and Close/Trip operations.

Capacity

2,048 Application Layer capacity
5-fragment support

DNP3 Configuration

DNP3 objects and their properties can be configured through the HMI software

Modbus Features – RTU Master

Task Management

Support for up to 64 concurrent tasks

Function Codes

Full support for Modbus functions 1, 2, 3, 4, 5, 6, and 10.

Dynamic Updates

Uses internal RAM to maintain the latest state of connected devices.

Modbus Configuration

Modbus tables and their protocol properties can be configured through the HMI software

Communication

Ethernet

RS485 / RS232

Configuration

Windows Configuration Software

DNP3/Modbus Object Table Editing

Non-volatile Flash Memory Storage

HMI

6 Front Panel LED Indicators

System run status

Modbus

RX

TX

Error

DNP3

RX

TX

Mounting

Standard DIN-Rail Mount for Industrial Cabinets

Environment Condition

Operating Temperature -20 to +70 °C

Humidity < 95% RH

Altitude < 2000 m

Mechanical Parameters

Dimensions (W*L*H): 53*112*58 mm