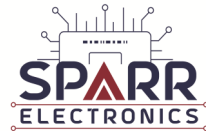


# MODBUS DISPLAY CONTROLLER



- The MODBUS Display Controller is a compact and reliable Modbus-to-Serial Display Driver designed for industrial and embedded applications.
- It provides users to transmit alphanumeric messages to a serial display by writing data directly to Modbus registers.
- The controller supports configurable scrolling speed, allowing dynamic adjustment via a dedicated Modbus register. This makes it ideal for real-time status updates, alerts, and process indicators in automation systems.
- Whether integrated into a PLC network or used as a standalone display interface, the device ensures seamless communication over RS485 using the Modbus RTU protocol.



## Features & Specifications

### Interface

|              |                                                                                                |
|--------------|------------------------------------------------------------------------------------------------|
| Interface    | RS 485                                                                                         |
| Baud Rate    | 9600 to 115200 bps                                                                             |
| Data Bits    | 8                                                                                              |
| Stop Bits    | 1                                                                                              |
| Parity       | None                                                                                           |
| Nodes        | up to 32 on MODBUS                                                                             |
| Cable length | 1200 meters maximum for RS 485                                                                 |
| Connector    | 3 way screw terminal for 485, 3 way screw terminal for Display, 2 way screw terminal for power |
| Isolation    | 2500Vrms between RS485 & AC Power                                                              |
| Protocols    | Modbus                                                                                         |
| Display Type | 14-Segment Alphanumeric LED Display                                                            |

### Indicators (LED)

|        |                     |
|--------|---------------------|
| Red    | Power               |
| Yellow | Status              |
| Red    | Transmit Data (TDX) |
| Yellow | Receive Data (RDX)  |

### Power

|               |                |
|---------------|----------------|
| Input Voltage | 90-265 Vac     |
| Current       | 15mA at 230Vac |

### Environmental

|           |               |
|-----------|---------------|
| Operating | 0 °C to 65 °C |
| Storage   | 0°C to 75 °C  |

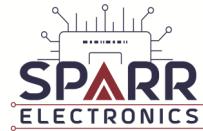
### Packaging

|            |                                  |
|------------|----------------------------------|
| Dimensions | 90mm (L) x 36 mm (W) x 57 mm (H) |
| Weight     | 75g                              |
| Warranty   | 12 Months                        |
| Mounting   | 35mm Din Rail, Table top         |

## Sparr Electronics Limited

414A, 7th Main Rd, 1st Block, HRBR Layout, Banaswadi, Bengaluru, Karnataka 560043, INDIA  
Bangalore: +91-9900477055, +91-80-41278033 For more details visit: <http://www.sparrl.com>

# MODBUS DISPLAY CONTROLLER



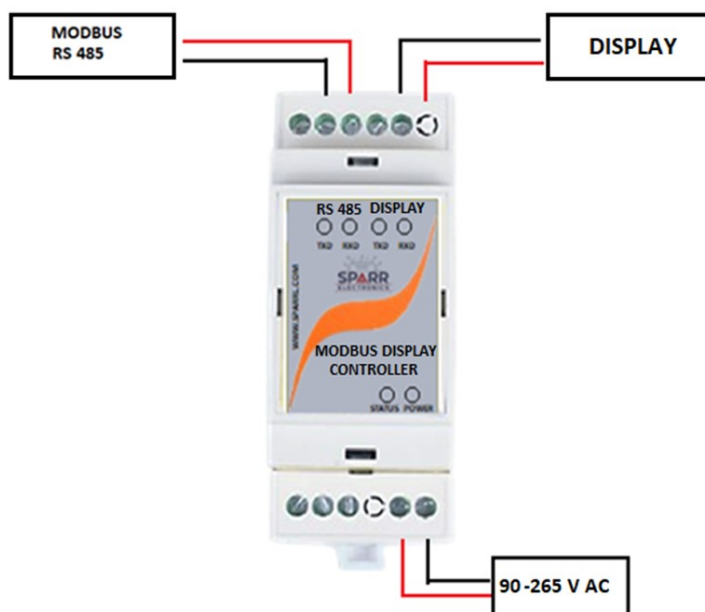
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## Applications

- Industrial Process Monitoring.
- Automation and Control Systems.
- Energy Management Systems.
- Weighing and Batching Systems.
- Building Management Systems.
- Remote Equipment Monitoring.

### Connection Diagram



| Part Number | Model                     | Deliverables |
|-------------|---------------------------|--------------|
| 2770015842  | MODBUS DISPLAY CONTROLLER | UNIT         |

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