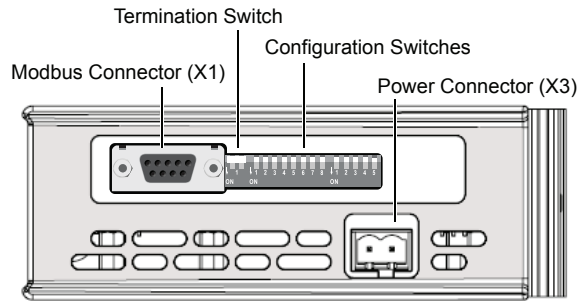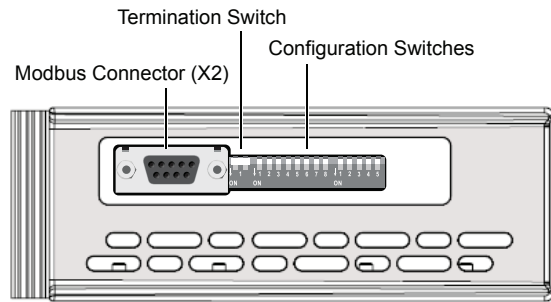## Product Overview

The Modbus RTU Slave interface can be top- or bottom-mounted.

### Top-mounted Interface
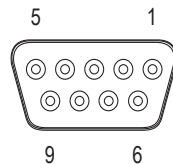
Termination Switch
Configuration Switches
Modbus Connector (X1)
Power Connector (X3)



### Bottom-mounted Interface

Termination Switch
Configuration Switches
Modbus Connector (X2)



## Modbus Connector

| Pin | Signal |
|---|---|
| 1, 4, 9 | (not connected) |
| 2 | RS-232 Tx |
| 3 | RS-232 Rx |
| 5 | Signal Ground[1] |
| 6 | +5 V Output (50 mA max.)[1] |
| 7 | RS-485 Line B |
| 8 | RS-485 Line A |
| Housing | Shield |



[1] Can be used to power external bias/termination circuitry, or external equipment such as media converters, etc. Maximum current consumption must not exceed 50 mA.

## LED Indicators

| LED | Indication | Meaning |
|---|---|---|
| GW Status | See Gateway Installation Sheet | |
| Processing | Green (flashing) | Processing message |
| | Off | Not processing |
| Bus Error | Red | Bus error |
| | Off | Normal operation |
| Bus Ready | Green | Normal operation |
| | Red | Bus timeout error |
| | Off | Bus not running |
| HW Status | Red | Configuration switch error |
| | Off | - |

**Top-mounted**



GW Status
Processing
Bus Error
Bus Ready
HW Status

USB (X4)

GW Status
Processing
Bus Error
Bus Ready
HW Status

USB (X4)

**Bottom-mounted**
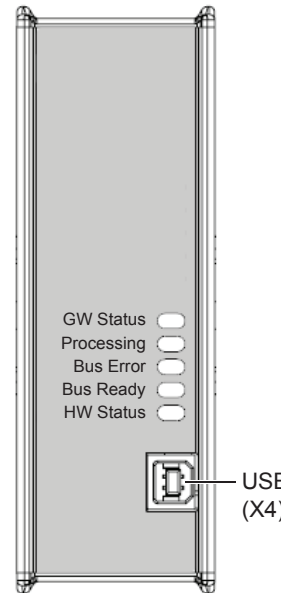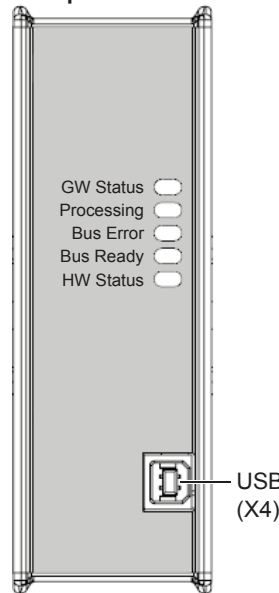
## Installation and Startup Summary

1. Set a Node ID for the interface
2. Connect the gateway to the network
3. Connect a PC to the gateway via USB (optional)
4. Power up and (if required) configure the gateway

## Configuration Switches

**NOTE:** Changes to the configuration switches will only take effect after the gateway has been restarted.

The first 7 switches are used to set the node ID, using binary format.

| Sw. 1 | Sw. 2 | Sw. 3 | Sw. 4 | Sw. 5 | Sw. 6 | Sw. 7 | Node ID | |
|---|---|---|---|---|---|---|---|---|
| 64 | 32 | 16 | 8 | 4 | 2 | 1 | | |
| OFF | OFF | OFF | OFF | OFF | OFF | OFF | (invalid) | |
| OFF | OFF | OFF | OFF | OFF | OFF | ON | 1 | |
| ... | ... | ... | ... | ... | ... | ... | ... | |
| ON | ON | ON | ON | ON | ON | ON | 127 | (64+32+16+8+4+2+1) |

The remaining switches are used to set the baud rate, the parity and stop bits, and the physical interface type. **Bold text** = default value.

| Sw. 8 | Sw. 1 | Sw. 2 | | Baud rate | |
|---|---|---|---|---|---|
| OFF | OFF | OFF | | (invalid) | |
| OFF | OFF | ON | | 1200 bps | |
| OFF | ON | OFF | | 2400 bps | |
| OFF | ON | ON | | 4800 bps | |
| ON | OFF | OFF | | 9600 bps | |
| ON | OFF | ON | | **19200 bps** | |
| ON | ON | OFF | | 38400 bps | |
| ON | ON | ON | | 57600 bps | |

| | | Sw. 3 | Sw. 4 | | Parity | Stop bits |
|---|---|---|---|---|---|---|
| | | OFF | OFF | | (invalid) | (invalid) |
| | | OFF | ON | | **None** | **2** |
| | | ON | OFF | | Even | 1 |
| | | ON | ON | | Odd | 1 |

| | | | Sw. 5 | | | Interface |
|---|---|---|---|---|---|---|
| | | | OFF | | | RS485 |
| | | | ON | | | RS232 |

## Termination switch

The Termination Switch must be set to **ON** if the gateway is installed as an end node on a RS485-based Modbus RTU network.

## Accessories Checklist

The following items are required for installation:

- USB cable (included)
- Modbus cable (not included)

## Technical Support

Technical support, documentation and software downloads are available at www.anybus.com.

Technical questions regarding the Modbus RTU fieldbus system should be directed to www.modbus.org.