Wastewater Treatment Sensor Interface
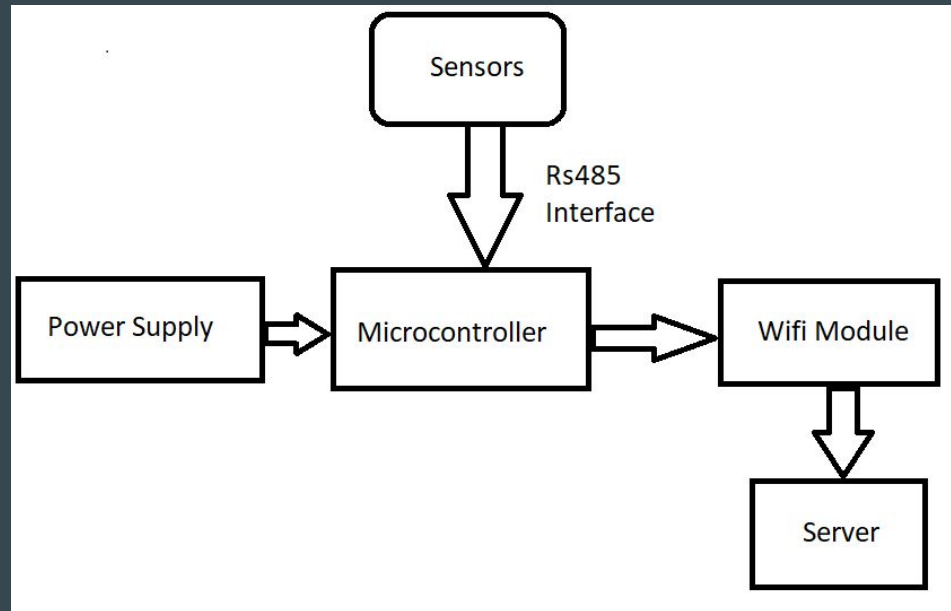
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September 1, 2021

Overview

- Block Diagram
- Rs485 Communication Protocol Specification
- Sensors

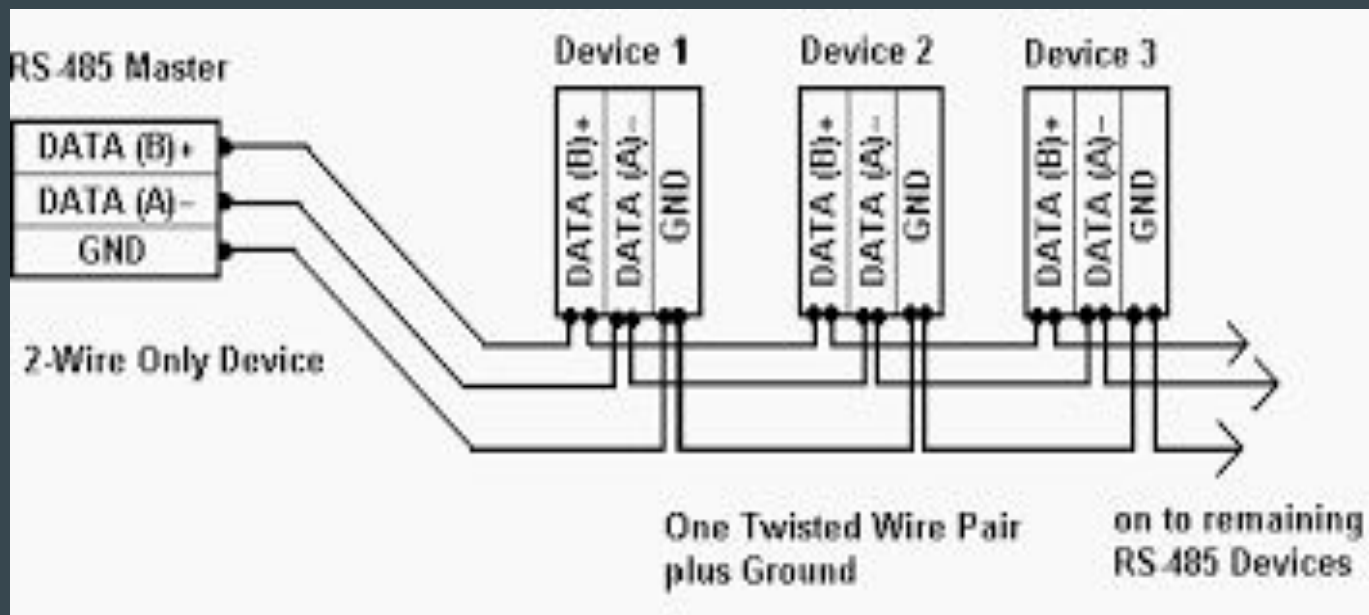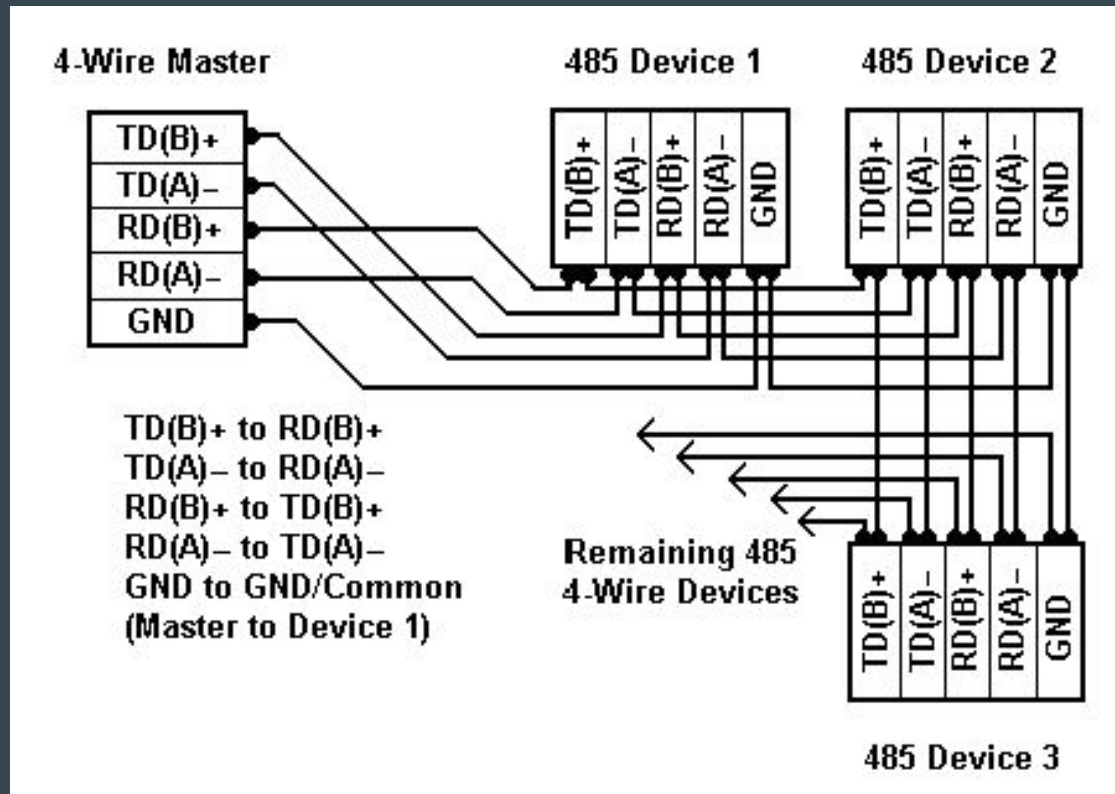# Block Diagram

Rs485 Specifications

- Max number of drivers   32
- Max number of receivers   32
- Modes of operation   half duplex or full duplex
- Network topology   multipoint
- Max distance (acc. standard)   1200m
- Max speed at 12m   35Mbps
- Max speed at 1200m   100kbps

2 Wire Half Duplex Connection

4 Wire Duplex Connection

PH Sensors

1. https://www.seeedstudio.com/RS485-pH-Sensor-S-pH-01A-p-4632.html

Price: Rs 10500

Universal Protocol: RS485

2.

https://www.alibaba.com/product-detail/BGT-D718-PH-Water-Quality-Monitoring_62470620532.html?spm=a2700.galleryofferlist.normal_offer.d_title.3933975b9QnmYr

Price: Rs 5200

Universal Protocol: RS485

Turbidity Sensor and TSS (Total Suspended Solids) Sensor

1.
https://www.tradeindia.com/products/nephelometer-rs485-4-20ma-output-turbidity-sensor-c5554403.html

Price: Rs 45000

Universal Protocol: RS485

2.
https://www.alibaba.com/product-detail/RK500-07-IP68-Optical-Digital-Online_623686
25430.html?spm=a2700.galleryofferlist.normal_offer.d_title.61644b63YWlb70

Price: Rs 45000

Universal Protocol: RS485

TDS (Total Dissolved Solids) Sensor

1. https://www.alibaba.com/product-detail/BGT-D718-4-20ma-or-RS485-Modbus-Conductivity_62467992655.html?mark=google_shopping&seo=1

Price: Rs 5200

Universal Protocol: RS485

2. https://www.seeedstudio.com/EC-RS485-p-4848.html

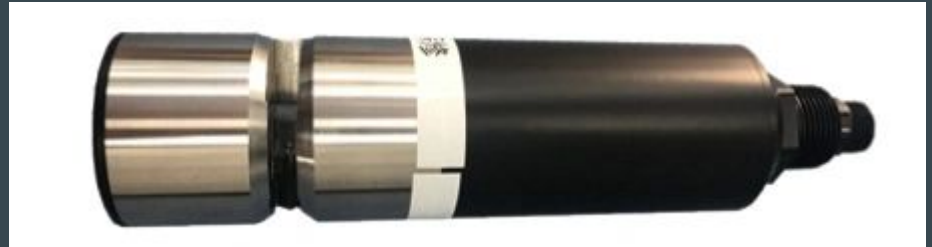Price: Rs 10300

Universal Protocol: RS485

COD (Chemical Oxygen Demand) Sensor and BOD (Biochemical Oxygen Demand) Sensor

COD Sensor

https://m.made-in-china.com/product/Digital-Chemical-Oxygen-Demand-Electrode-Probe-COD-Sensor-RS485-904696955.html

Price: Rs 150000

Universal Protocol: RS485

BOD Sensor

https://www.alibaba.com/product-detail/beer-dissolved-oxygen-and-bod-meter_62308198393.html?mark=google_shopping&seo=1

Price: Rs 33000

Universal Protocol: RS485

COD and BOD Sensor

https://www.alibaba.com/product-detail/Chemical-Oxygen-Demand-Waste-Water-Treatment_1600110713259.html

Price: Rs 750000

Universal Protocol: RS485

Flow Meter Sensor

1. https://www.alibaba.com/product-detail/Low-price-flow-meter-water-RS485_6073 5212590.html?spm=a2700.galleryofferlist.normal_offer.d_title.50b595194mEUiW

Price: Rs 20000

Universal Protocol: RS485

2.

Price: Rs 19000

Universal Protocol: RS485

- VS Sensor and Coliforms Sensor are not included in the list.
- There are little documents and details available about these sensors.
- Need some more information like the price range and detailed specification about these sensors.

Thanks