



MKC Waste Water and Power Management System

10/01/2022



Proteus Instrument

Single solution for the Wastewater Treatment Plant



Parameters : BOD, COD, TOC, DOC, Dissolved Oxygen, Pressure, Chloride, pH,
Temperature, Optical Brighteners, Nitrate, ORP / REDOX, Coliforms
(faecal, E. coli, total), Tryptophan, Refined Oils, Ammonium, EC / Salinity / TDS,
Turbidity, Crude Oils, CDOM

Internal Battery Life : 1 to 24 month depending on sensors / logging rates

Power Supply : 5 - 15 vdc

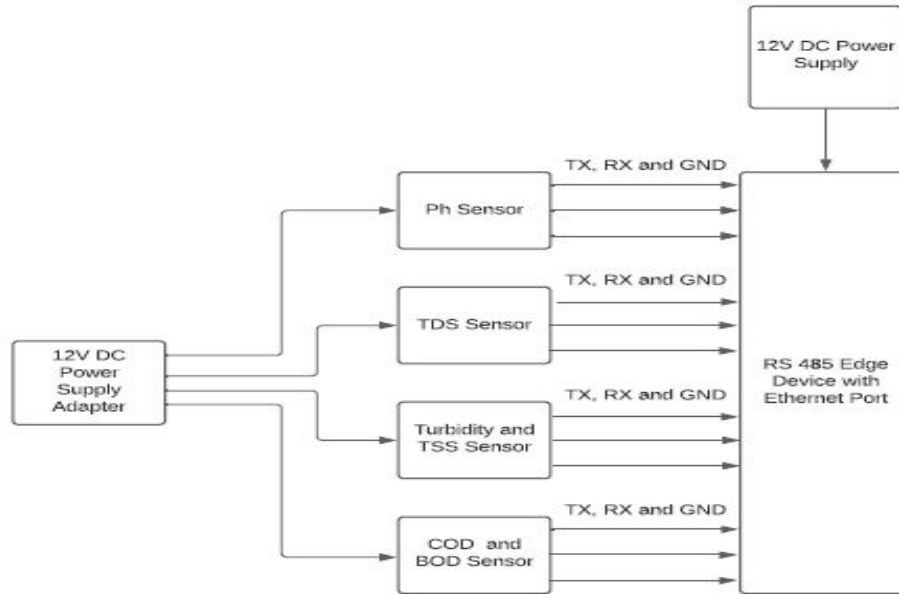
Communication : USB, RS232 as standard. Modbus RS485, SDI-12 and/or Bluetooth optional

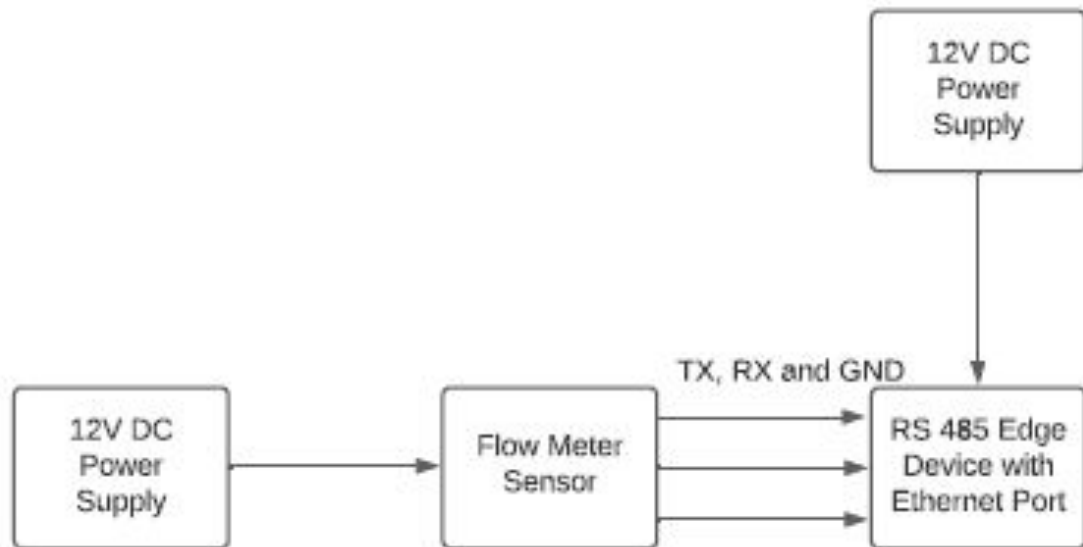
Data Memory : >1,000,000 logged readings

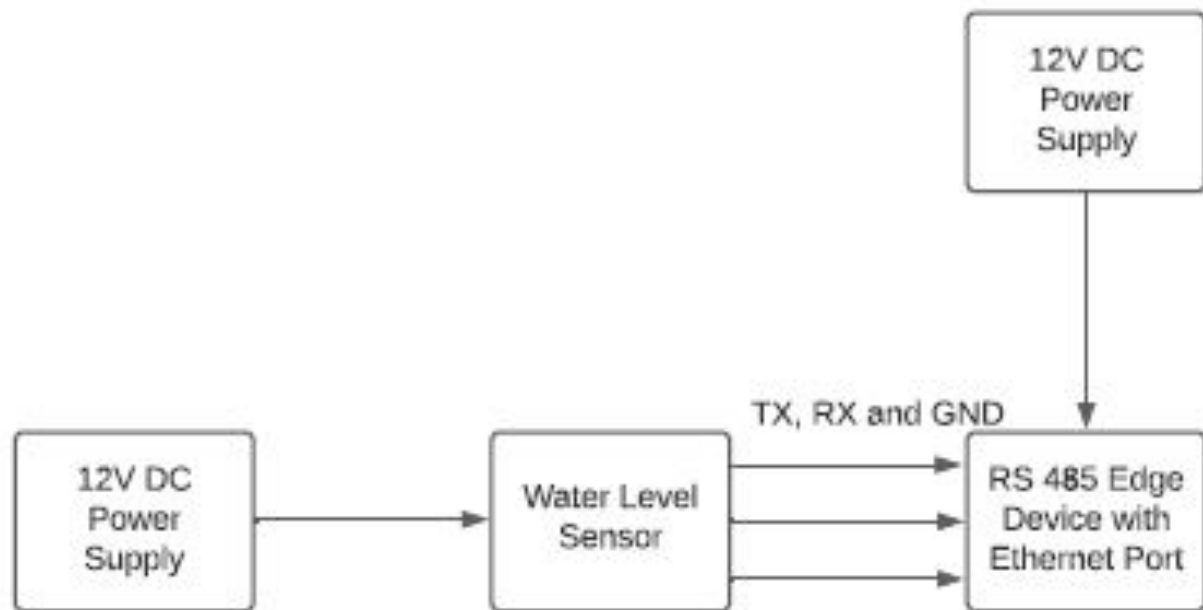
Depth Rating : 200 m

Operating Temperature : 0 to 50°C, non-freezing

Integrated Solution Block Diagram







Power Supply : 3.6 ~ 30V DC

Communication : RS-485

Range : 0 to 14 pH

Cable Length : 5 meters

IP Rating : IP65

Operating Temperature : -40 ~ 85 degree Celsius

Turbidity and TSS Sensor



Power Supply : 12 - 24V DC

Communication : RS485, 4 - 20mA

Range : 0 - 4000 NTU

Cable length : 5m default

IP Rating : IP68

Operating Temperature : 0 -+ 80 C

TDS Sensor



Power Supply : 3.9 - 30V/DC

Communication : RS485 Modbus-RTU

Range : 0 - 20000us/cm

Cable Length : Power and Signal Cable : 2 meters or Customize

Electrode Cable : 5 meters

IP Rating : Electrode : IP68,

Transmitter : IP65

Operating Temperature : -40 ~ 80°C

COD and BOD Sensor



Power supply : 12VDC

Communication : RS485 Modbus

Range : 0-200mg, 0~1000mg/l COD (2mm optical path)

Cable length : Standard 10m cable, can be extended to 100 meters

IP Rating : IP68/NEMA6P

Water Level Sensor



Power Supply : 11 - 30V DC

Communication : RS485 Modbus-RTU Protocol

Range : 0 ~ 5 meters

Cable Length : 5.3 meters

IP Rating : IP68

Digital Flow Meter Sensor



Power Supply : 230 VAC, 110 VAC & 12VDC or Battery Operated

Communication : Std. 4 20 mA / RS 485 on request / Pulse output

Range : 0.5 m/sec for Minimum & 5m/sec for Maximum

Cable Length : 10 meters

IP Rating : IP 65

Diameter : 15 to 400 mm

Process Pressure : Max. 25 kg/cm²

Process Temperature : Max. 150 C

RS485 Edge Device



Power Supply : 12VDC(9~48VDC)

Communication : Ethernet

Speed : 10/100Mbps

Distance : 100m

Connector : RJ45

RS485

Band rate : 300bps -115200bps

Distance : 1200m

Port Numbers : 8

Signal : D+(A), D-(B)

IP Rating : IP30 protection, metal shell

Configure IP address, server and client mode, data bag size etc

Real COM driver working mode

Support cross-gateway and cross-router communication

Energy Meter



Power Supply: 230 VAC

Displays : Active Energy (kWh),PF, Active Power(kW), Voltage
(Line to Line & Line to Neutral),Current, Frequency,
Run Hour, Load Hour

Communication : RS 485

IP Rating : IP 55

Metering Standard : IEC 62053-21/22

Old energy register back-up for re-start energy reading.

Password Protected



Thank You