



APPLICATIONS & CUSTOMERS

APPLICATIONS

In industrial and commercial areas water quality analyzer system for steam boiler feedwater applications. With local control and monitoring as well as complete management system for auto blowdown for steam boilers.

Preferred areas of use are:

- Steam boilers surface blowdown
- Condensate tanks
- Feedwater tanks
- Steam boilers bottom blowdown

CUSTOMERS

Industrial and commercial sectors, such as:

- Textiles
- Power plants
- Compressor stations
- Pharmaceuticals
- Process engineering
- Chemical industry
- Hotels

TECHNICAL SPECIFICATIONS

DISPLAY

TFT color display: Display parameters: Meter ID, TDS ppm, Electric Current, Temperature, Hardness, and Purging.

DISPLAY HOUSING

- Operating temperatures: 0~70 °C
- RH: 0~90%
- UPVC IP 65 water proof
- Size: 160mm X 80mm X 60mm
- Wall mounting with 2-brackets

MECHANICAL

TDS HOUSING

- Material: Stainless Steel
- Anti-rust zinc coated
- Length: 88mm
- Diameter: 88mm
- Probe Length: 210mm
- Probe Diameter: 19mm
- IP protection: IP67
- 4 pin Jack
- Flange Fitting

SPECIFICATIONS

TDS SENSOR

- NPT ½" fast ferrule fittings
- High temperature Teflon insulated probes
- Probes: SS 316L

TRANSMISSION: User programmable

- Interval: 1~60 Minutes
- Method: Using Mosquito broker via MQTT
- Protocol: MQTT

PASSWORD: 4 Level of passwords restriction

- SSID
- Configuration
- OTA
- Admin Account

ANALOG INPUTS: 2 Nos. (15 Bits)

- PT1000 temperature sensor
- TDS sensor (4~20 mA)

DIGITAL OUTPUTS: 2 Nos. (Relays)

- Valve open
- Valve close

TEMPERATURE SENSOR

- PT1000 D10mm L200mm

COMMUNICATIONS: 3 types of communications available

- Modbus RS485 (Master)
- Wi-Fi for Web Server
- GSM/GPRS 2G/3G (Optional)

ENVIRONMENTAL

- Operating: -10~65 °C
- Storage: -40~85 °C
- Relative humidity: 10~90%

CONNECTIONS

- PCB: Removable screw terminal blocks
- Terminal block: Wire size: 0.5~0.7 mm
- Field connections: Wiring harness 3 meters

POWER SUPPLY: 9~24 V DC, 5 W

CPU

- Dual core up to 240 MHZ
- Flash RAM: 4 MB

EEPROM: Data retention 20,000 records (100 B/Record)

DATABASE: Mongo DB API development

BACKUP POWER: 5~7 Hours with Li-ion battery (Optional)

CONFIGURATION

- Remote: Could server using MQTT protocol

WARRANTY: 1 year after delivery

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