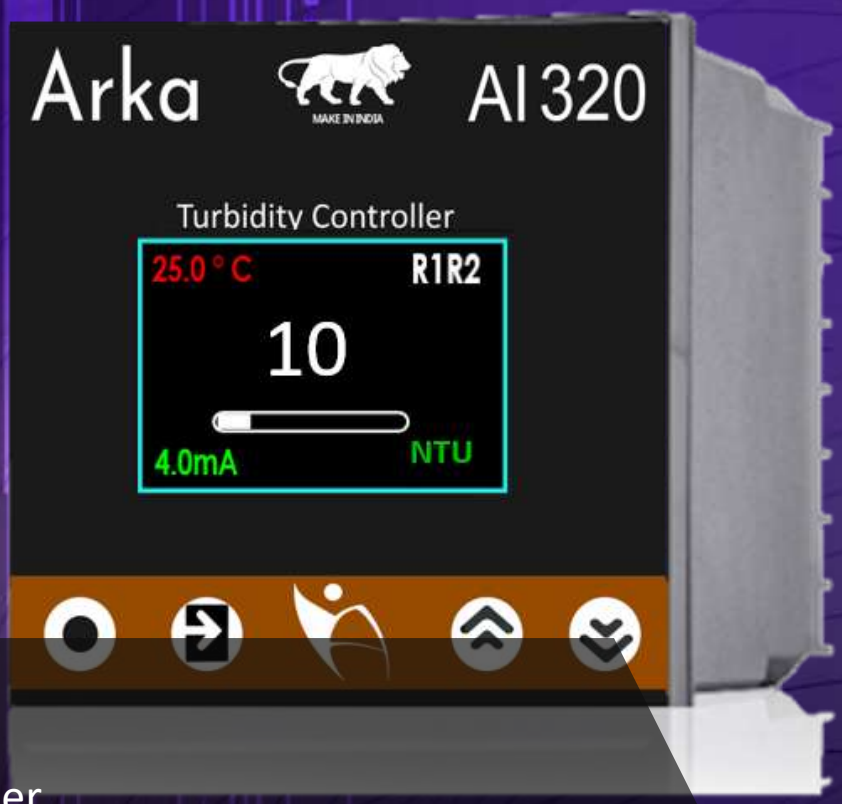
Arka Instruments

Turbidity Controller



AI320

Turbidity Controller

Introduction

A Turbidity controller is a device designed to be permanently installed as either a stand-alone instrument, or as part of a control panel - to offer continuous turbidity measurements from a Turbidity Sensor.

Is a microprocessor-based instrument which allows the turbidity sensor to be calibrated directly from the controller, as well as the range to be adjusted as required.

Features

- Panel mounting turbidity controller
- Precision turbidity controller for drinking water quality analysis, water treatment, effluent treatment, aquaculture, and environmental applications in both process and effluent monitoring and control.
- Using the setup program: user-friendly programming
- 4-20mA analog output
- RS485 communication
- Relay output

Specifications

Product
Turbidity Controller
Measure range
0 to 4.0 (or) 0 to 40.0 (or) 0 to 400.0 NTU
Resolution
0.1 NTU
Accuracy
0.2 % of the full-scale selected
Temperature Limit
0 to 50 C
Cable Length
5 m, PVC sheath
Body
PVC-C
Protection
IP68
Communication
RS485, Modbus-RTU
Signal output (Optional)
4-20mA, maximum loop 750Q, 0.01%FS
Power supply
AC220V±10%, 50Hz
Relay output
250V, 3A

Turbidity Sensor

These probes are designed for accurate low turbidity measurement using the nephelometric method and can be installed in both overflow and in-line systems. They offer a configurable range from 4 to 400 NTU with scalable outputs, supporting both analog and digital modes. The 4–20 mA analog output is proportional to the measurement value, while an automatic zero calibration ensures accuracy even at near-zero turbidity. A built-in temperature sensor provides optical efficiency compensation, and the probes operate on 12/24 V DC supplied by PLCs or data acquisition systems.

Sensor

Flow cell

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