Dissolved Oxygen Indicating Controller cum Transmitter - WeatherProof
MS DO 27



DESCRIPTION

MicroSet Dissolved Oxygen Indicating Controller Transmitter Model MS DO 27 is used for various industrial applications such as ETP, STP, WTP, Package drinking water, Power plant. MS DO 27 is a convenient and cost effective solution for monitoring and maintaining DO value. MS DO 27 accept input from any DO sensor in the form of milli Volts.
MS DO 27 output is in the form of Analogue 4-20 mA DC or MODBUS RS 485 RTU (Optional). Online DO indication provided through 1" bright large LED which is easily readable, 2 Nos Relay Outputs are provided to operate Alarm, Solenoid Valve, Pump etc.4 Nos Setpoints for Relays can be programmed using Frontal Keypad.

PRINCIPLE

MS DO 27 is compatible with our Galvanic Maintenance Free DO Sensor Model MS DO 714
MicroSet Sensor Model MS DO 714 sensors are maintenance-free and designed with plug-and-play configuration that consists of two part, robust sensor body with built-in Pt 100 with quick, and accurate dissolved oxygen and temperature measurements. As galvanic DO sensor is self-polarizing hence polarizing voltage is not required.
When galvanic DO sensor is immersed in water sample, oxygen that diffuses across the oxygen-permeable membrane at a rate proportional to the pressure of oxygen in

the water is reduced and consumed at the cathode. This reaction produces an electrical current that is directly related to the oxygen concentration. This current is carried by the ions in the electrolyte and runs from the cathode to the anode. The current produced is proportional to oxygen consumed and thus to the partial pressure of oxygen in the sample.
These generated raw mill volts are feed to MS DO 27 where it is processed by amplifier & reading is displayed on meter

TECHNICAL SPECIFICATION

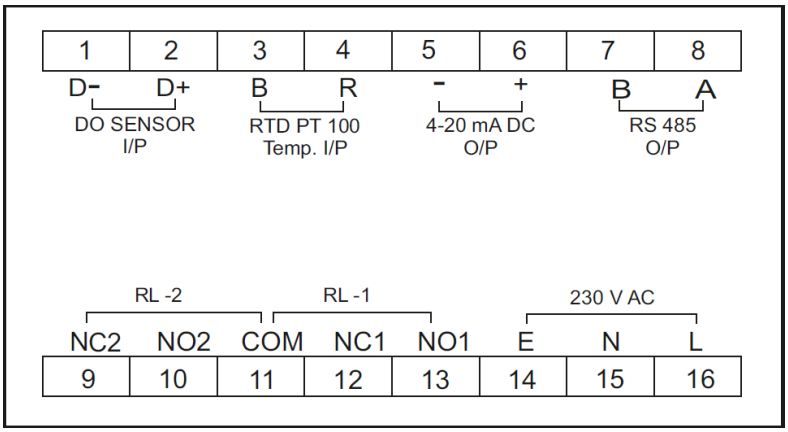
Type of Input	: DO Sensor RTD PT 100 Temp. Sensor
Supply	: 230V AC, 50 Hz
Output	: 4-20 mA DC, MODBUS RS485 (Optional).
Range of DO	: 00.00 to 20.90 PPM
Output	: 4-20 mA DC
Temperature Compensation	: Manual / Auto through PT 100, Range 00.00 - 50.00 °C
Pressure Compensation	: Manual, Range 600 – 790 mmHg
Accuracy	: 0.25 % of Full Scale
Calibration	: 2 Point Calibration (ZERO and SPAN)
Display	: 1 Inch 4 digit LED display
Setpoints	: 4 Nos (Special Logic)
Control Output	: 2 Nos Potential Free Relays (230 Vac /5A)
Response Time	: < 1 Sec
Mounting	: Weatherproof IP 65
Dimensions	: 120 x 200 x 75 mm
Weight	: 560 gram

DIMENSION

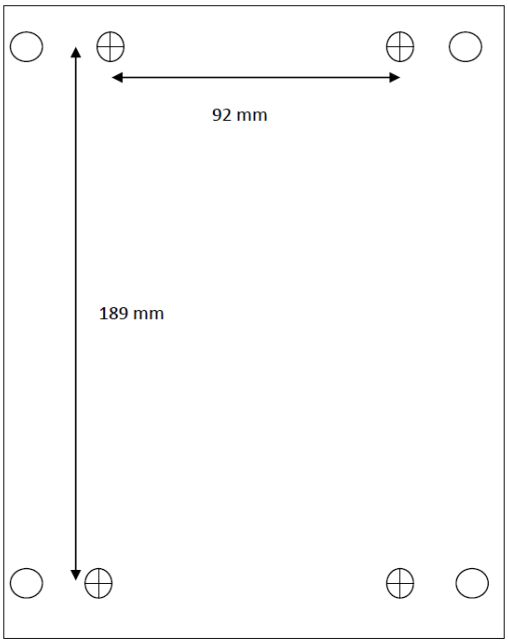


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TERMINAL DETAILS



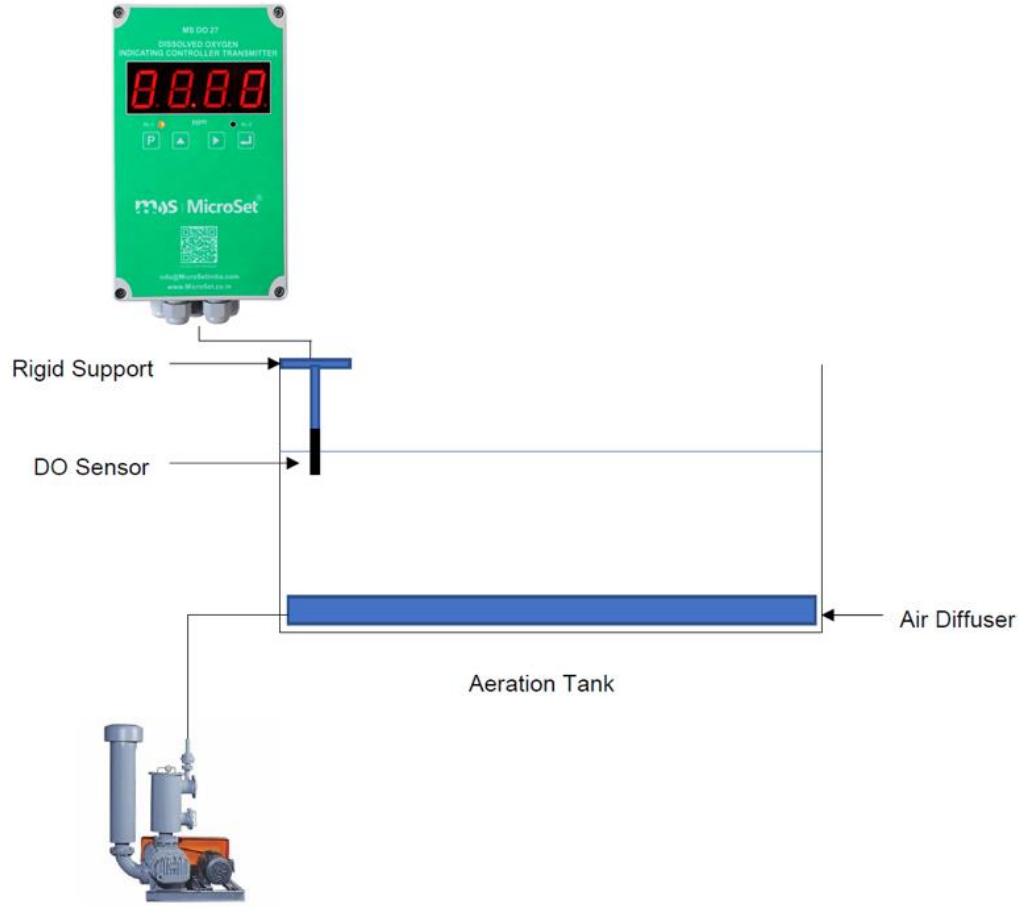
WALL MOUNTING DETAILS



BACKSIDE HOLE DISTANCE

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INSTALLATION DIAGRAM



APPLICATION

- Beverage
- Chemical
- Petrochemical
- Food
- Manufacturing
- Maritime
- Metals and Mining
- Plating
- Power Generation
- Pulp and Paper
- Airports
- And More

Note : Due to Continuous Improvement, Specifications & Appearance may vary