

# MXD73 Multi Channel Suspended Solids and Turbidity Transmitter Panel Mount

- Compact 96 DIN IP66 Panel Mount
- Up to 3 Sensors per Transmitter.
- Parameters include Suspended Solids, Turbidity , Conductivity, pH/Redox and DO.
- Multiple measurements can be selected and displayed.
- Simple menu driven interface.
- User selectable bar graph display option.
- SD card interface allows trouble free saving of configuration and simplifies software upgrades.
- Base model includes 2 relays and a single 4-20mA output. Can be expanded to a 6 relay outputs and 6 isolated 4-20mA outputs.
- Simple 2 point or up to 9 point lineariser. Manual or automatic linearisation sample data input, making the process simple and fast.
- 8 independent programmable digital inputs with user selectable operations.
- Options include Data Logging with Live Trending and Modbus RS485

Provides accurate, repeatable and reliable process monitoring of Suspended Solids and Turbidity using Quadbeam Technologies S10, S20, S40 or T30 sensors.

**Gain improved control in;**

- Dairy Processing
- Food & Beverage Processing
- Waste Water Monitoring and Treatment
- Mining
- Pulp & Paper

The MXD73 Transmitter is an innovative and sophisticated transmitter, yet still simple and intuitive to use.

The clear LCD display providing up to 3 levels of information for up to 3 Sensors.

5 tactile feedback, micro-switched, silicone buttons help make interface simple and easy to use.

With the capacity to include Electrodeless Conductivity sensors into the mix of analysis means it is possible to make significant efficiency improvements to processes like CIP. The relay and digital inputs allow for great flexibility coupled with the Cleaning function make sensor cleaning set-up simple.



# Specifications

## Measurement Input:

A mix of up to 3 Sensors. Suspended Solids Series S10, S20, S40 and/or Turbidity Series T30 and or. Electrodeless Conductivity Sensor ECS40.

Input cards also available for pH & DO

## Current Output

1 as standard, up to 6 current outputs, depending on number of relays, each selectable 0-20mA or 4-20mA into 1000 ohms max, fully isolated to 2kV. Expandable up to 5% of any operating range and offset anywhere in that range.

## Setpoints and Control Relay

2 change over relays as standard, expandable up to a total of either 4 change over relays, or 4 change over relays plus 2 normally open relays. depending on the number of current outputs.

Fully configurable setpoints with volt free contacts for each relay. Rated at 5A at 30V DC /5A at 250V AC

## Digital Inputs

8 separate inputs for remote activation of user defined operations. Can be configured to operate in normally open or normally closed modes.

## Modbus RS485 Interface - Option

Supports RTU and ASCII formats.

Node Address: 1 to 247

Baud Rates (Bits Per Second): 300,600, 1200, 2400, 4800, 9600, 19200, 31250, 38400.

## MODEL NO. SELECTION GUIDE

### Basic Model No:

MXD73 - Ip66 to the front when panel mounted.

### Output:

R- 2 relays (max 6)

1I (max 3) fully isolated to 2kV current outputs, software selectable to be either 0 to 20mA or 4 to 20mA into a maximum of 1000 ohms.

### Supply Voltage:

U - Universal 80-265V AC or DC, 15W max.

LV - 18 -36 V AC or DC, 20W max.

## DIMENSIONS

### Weight

Maximum 880 grams (instrument only)

### Front

128 x 116 x 23mm (H,W,D)

### Rear

89 x 89 x161mm (H,W,D)

## Display

95mm QVGA back lit LCD.

## Buttons

5 tactile feedback, micro-switched, silicone rubber

## Measurement Units for Suspended Solids & Turbidity:

NTU, FTU, ppm, mg/l, g/l, %, EBC or OD can be selected and displayed.

## Calibration:

Simple 2 point, or up to 9 point linearisations can be entered. Up to 3 curves, switchable by Digital Input.

## Linearity:

0.1% of range.

## Repeatability:

0.1% of range.

## Ambient Operating Range:

-20°C to +50°C

## Data Logging - Option

Live trending provides the user 3 different trend screens with 2 readings, viewing last 50 samples of each. In review mode, review and save last 200 samples.

SD Card Data Logging allows for long term logging that can be reviewed on the instrument or removed to be viewed on Excel.

## SD Card Interface

SD, SDHC and SDXC-FAT-32 cards supported.

## EMC

2004/108/EC using BS EN 61326-1: 2013

## Ingress Protection Rating

IP66 to front when panel mounted.

