



# QUADBEAM TECHNOLOGIES

~ Specialists in process suspended solids & turbidity ~

## MSSD33 Transmitter

The MSSD33 transmitter is an advanced microprocessor based suspended solids controller capable of accurately determining the milk/water interface (Transition) in product recovery and CIP applications.

It is supplied complete with a Quadbeam™ Series 20 hygienic sensor which has a 3" Triclover process connection.

### Simple Set-up & Calibration

Although microprocessor based, the MSSD33 is simple to set-up, calibrate and install. The only equipment needed is a screw driver and a general purpose digital multi-meter with a 0 to 10 volt range.

### Product Recovery

The MSSD33 has two control relays and two adjustable setpoints. Where the instrument is used for product recovery, the setpoints are adjusted so that all product that falls between the two setpoints is recovered. Any product that falls below the lower setpoint usually goes to the waste water treatment plant.

### Fault Detection

The MSSD33 also has a fault relay which is activated when the microprocessor determines that the measurement is no longer valid. This relay would normally be wired back to either a PLC or alarm annunciator panel to advise that urgent attention is required.



## Series 20 Hygienic Sensor



Hygienic style sensors are designed for installation directly into food product lines where CIP cleaning is used.

One piece polypropylene construction with a surface finish of better than  $Ra = 0.9\mu m$  eliminates bacteria traps.

Industry standard 3" Triclover connections.

### Applications:

- Milk fat measurement
- Percentage solids in fruit & vegetable juices

## SPECIFICATIONS

### Measuring Input:

From Quadbeam™ Series 20 Suspended Solids Sensors

### Measurement Units:

Probe signal units

### Ambient Operating Range:

-20 to +60°C

### Calibration:

The unit is pre-calibrated from 0 to 10,000 probe signal units

### Accuracy:

+/-2% of reading

### Repeatability:

+/-1%. The effects of the hysteresis adjustment is additional.

## Sensor

### Temperature:

0 to 85°C operating range

### Pressure:

10 BarG

## MODEL NO. SELECTION GUIDE

### Basic Model No.

**MSSD33S** - surface mounted enclosure to IP66

### Output:

**R** - Two SPST voltage free control relays are standard and rated at 10A/250 Vac non inductive. The third relay is a fault relay and is rated at 0.5A/250 Vac

### Supply voltage:

**LV** - 18 to 36 Volt DC only

### Mounting bracket

**SS** - Stainless steel mounting brackets are supplied which allow for vertical or horizontal mounting

*Sample order no. MSSD33S-R-LV-SS*

Optional extra - Pipe mounting kit to convert the wall mount to a 2" pipe mount

## Sensor

The MSSD33 is supplied with a Series 20 hygienic sensor which has a 3 inch Triclover process connector.

*Sample order no. S20-3HY-880-PP-4-NC.*

## MSSD33 Suspended Solids Transmitter

