

Proline Teqwave MW 500 – Total solids meter

Inline measuring device for total solids measurement in wastewater sludge as remote version with up to 4 I/Os



More information and current pricing:

www.endress.com/4W5B

Benefits:

- Reliable, real-time measuring performance – permanent in-line measurement with excellent repeatability
- Less maintenance – polished measuring tube reduces build-up formation and extends cleaning intervals
- Reduced effort in programming – onboard load rate calculation available in combination with a flowmeter
- Fewer process measuring points – multivariable measurement (total solids, temperature, conductivity)
- Easy installation – innovative sensor construction and state-of-the-art technology with web server (optional WLAN)
- Full access to process and diagnostic information – numerous freely combinable I/Os available
- Integrated verification – Heartbeat Technology enables documented device functionality without process interruption

Specs at a glance

- **Measuring range** 0 to 500 g/l (0 to 31 lb/ft³), 0 to 50 %TS
- **Process pressure** PN 16, Class 150, 10K

Field of application: The inline measuring device Teqwave MW 500 enhances sludge treatment in wastewater treatment plants through real-time total solids measurement using microwave transmission. This allows quicker, more efficient process optimization and fewer lab measurements. Continuous data availability improves solid-liquid separation, boosts operational safety, and enables swift response to

process changes. Typical applications in sludge treatment include clarification, digestion, and dewatering.

Features and specifications

Total Solids / Total Suspended Solids

Measuring principle

Total solids measurement via microwave transmission

Product headline

Total solids measurement for the water and wastewater industry, remote version with up to 4 I/Os.

Ideal for total solids measurement, e.g. for sludge treatment in water/waste water treatment plants.

Sensor features

Polished tube – less maintenance due to reduced adhesion. Fewer process measuring points – multivariable measurement (total solids, temperature, conductivity). Easy installation – proven sensor construction.

Repeatability (0.02%). Short installation length. Measuring up to 50% total solids content.

Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os. Onboard load calculation – less effort needed in programming. Integrated verification – Heartbeat Technology.

Full access to process and diagnostic information – numerous, freely combinable I/Os. Onboard load calculation – less effort needed in programming. Integrated verification – Heartbeat Technology.

Nominal diameter range

DN 50 to 300

Installation

Inline installation

Total Solids / Total Suspended Solids

Material

Measuring tube:
Stainless steel 1.4408 according to DIN EN 10213, CF3M according to ASME A351)
Temperature sensor:
1.4435 (316L)

Measuring range

0 to 500 g/l (0 to 31 lb/ft³), 0 to 50 %TS

Process pressure

PN 16, Class 150, 10K

Connection

Wafer

Ingress protection

IP66/67, Type 4X enclosure

Display/Operation

4-line backlit display with touch control (operation from outside)
Configuration via local display and operating tools possible

Output / communication

4-20mA HART, Modbus RS485

Power supply

AC 100 to 240 V / AC/DC 24 V

Product safety

CE Marking, UKCA Marking

Hazardous area approvals

ATEX, IECEx, CSA C/US

Material certificates

3.1 material

Total Solids / Total Suspended
Solids

Metrological approvals and certificates

Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

More information www.endress.com/4W5B