

Teqwave T – Ultrasonic concentration meter

Smart, mobile measuring device – individually for your process



Benefits:

- Easy, fast and efficient – real-time in situ liquid analysis
- Versatile applications – one device for changing tasks
- Highest process safety – reliable metering due to robust, maintenance-free sensor
- Cost-saving – surveillance of product quality without sampling
- Customized usage – innovative application concept, expendable for changing measuring tasks
- Fast, straightforward operation without metrology knowledge – pre-configured measuring points
- Efficient plant monitoring – up to 8 hours of mobile operation without external power supply

More information and current pricing:

www.be.endress.com/D9TB

Specs at a glance

- **Max. measurement error** Density: $\pm 0.01 \text{ g/cm}^3$ Temperature: $\pm 0.5 \text{ K}$ Sound velocity: 2 m/s
- **Measuring range** Concentration According to concentration app data sheet, maximum 0 to 100 % Sound velocity 600 to 2000 m/s Temperature concentration app data sheet, maximum 0 to $+100 \text{ }^\circ\text{C}$ (32 to $+212 \text{ }^\circ\text{F}$) Density 0.7 to 1.5 g/cm^3
- **Medium temperature range** 0 to $100 \text{ }^\circ\text{C}$ (32 to $212 \text{ }^\circ\text{F}$)

Field of application: The portable Teqwave T offers the most flexible application possibilities for temporary in situ liquid analysis in your plant or laboratory. With just one device, you can monitor concentration values at various measuring points and thus maximize your product quality at minimum operational expenditure. The mobile transmitter with its pre-configured measuring points allows you to use Teqwave T perfectly matched to your production needs.

Features and specifications

Density/Concentration

Measuring principle

Ultrasonic concentration

Product headline

Smart, mobile measuring device – individually for your process.

Easy, fast and efficient – real-time in situ liquid analysis.

Temporary concentration measurement of liquids at various measuring points in plant and laboratory.

Sensor features

Versatile applications – one device for changing tasks. Highest process safety – reliable metering due to robust, maintenance-free sensor. Cost-saving – surveillance of product quality without sampling.

Insertion length: 180 mm (7 in). Accurate and independent of flow profile.

Transmitter features

Customized usage – innovative application concept, expendable for changing measuring tasks. Fast, straightforward operation without metrology knowledge – pre-configured measuring points. Efficient plant monitoring – up to 8 hours of mobile operation without external power supply.

Robust, portable transmitter with Li-ion battery 2300 mAh. Large color display with 4 operating keys. Integrated data storage for max. 3000 measured values.

Nominal diameter range

Insertion length: 180 mm (7")

Measured variables

Concentration

Temperature

Sound velocity

Density/Concentration**Max. measurement error**Density: $\pm 0.01 \text{g/cm}^3$ Temperature: $\pm 0.5 \text{K}$ Sound velocity: 2m/s

Measuring range

Concentration According to concentration app data sheet, maximum 0 to 100 %

Sound velocity 600 to 2000 m/s

Temperature concentration app data sheet, maximum 0 to $+100 \text{ }^\circ\text{C}$ (32 to $+212 \text{ }^\circ\text{F}$)Density 0.7 to 1.5 g/cm^3

Medium temperature range0 to $100 \text{ }^\circ\text{C}$ (32 to $212 \text{ }^\circ\text{F}$)

Ambient temperature rangeSensor: 0 to $50 \text{ }^\circ\text{C}$ (32 to $122 \text{ }^\circ\text{F}$)Transmitter: 0 to $40 \text{ }^\circ\text{C}$ (32 to $104 \text{ }^\circ\text{F}$)

Sensor housing materialStainless steel V4A 1.4571

Degree of protection

Sensor: IP68 (with cable plugged in), IP66 (without cable connector)

Transmitter: IP65

Display/Operation3.5" TFT display with 4 operating keys

Power supplyLithium-ion battery (2300 mAh capacity)

Hazardous area approvals

Non-hazardous area

UK; Non-hazardous area

Product safetyCE, C-Tick

Density/Concentration

More information www.be.endress.com/D9TB