# Teqwave T – Ultrasonic concentration meter

## Smart, mobile measuring device – individually for your process


More information and current pricing:
www.endress.com/D9TB

**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

### Specs at a glance

- **Max. measurement error** Density: ±0.01g/cm³ Temperature: ±0.5K 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 °C (32 to +212 °F) Density 0.7 to 1.5 g/cm³
- **Medium temperature range** 0 to 100 °C (32 to 212 °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: ±0.01g/cm³
Temperature: ±0.5K
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 °C (32 to +212 °F)
Density 0.7 to 1.5 g/cm³

**Medium temperature range**

0 to 100 °C (32 to 212 °F)

**Ambient temperature range**

Sensor: 0 to 50 °C (32 to 122 °F)
Transmitter: 0 to 40 °C (32 to 104 °F)

**Sensor housing material**

Stainless steel V4A 1.4571

**Degree of protection**

Sensor: IP68 (with cable plugged in), IP66 (without cable connector)
Transmitter: IP40

**Display/Operation**

3.5" TFT display with 4 operating keys

**Power supply**

Lithium-ion battery (2300 mAh capacity)

**Hazardous area approvals**

Non-hazardous area
UK; Non-hazardous area

**Product safety**

CE, C-Tick

## Density/Concentration

More information **www.endress.com/D9TB**

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