

Teqwave H – Ultrasonic concentration meter

Inline device with best-in-class hygienic design – plug and play for food and beverage processes



Más información y precios actuales:

www.ar.endress.com/D9HB

Ventajas:

- High accuracy and repeatability – concentration calculation with latest algorithms
- Fulfilment of hygienic requirements – easily cleanable full-bore sensor
- Full transparency – constant monitoring of product quality without sampling
- Highest process safety – reliable metering due to robust, maintenance-free sensor
- Customized usage – innovative application concept, expendable for changing measuring tasks
- Simplified process control – user-friendly operation and clear status visualization
- Local data backup – integrated data storage for measured values up to 7,5 years

Resumen de especificaciones

- **Error de medición máx.** Density: $\pm 0.01 \text{g/cm}^3$ Temperature: $\pm 0.5 \text{K}$ Sound velocity: 2m/s
- **Rango de medición** 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 1.5g/cm^3
- **Rango de temperatura del medio** 0 to $100 \text{ }^\circ\text{C}$ (32 to $212 \text{ }^\circ\text{F}$)
- **Máx. presión de proceso** max. 16 bar at $20 \text{ }^\circ\text{C}$ (232 psi at $68 \text{ }^\circ\text{F}$)

Ámbito de aplicación: Teqwave H is ideal for real-time liquid analysis in hygienic applications like spirits and soft drink production. End customers and equipment manufacturers value its highly accurate in situ

concentration measurement and hygienic design. Teqwave reduces the operational expenditure by monitoring various measuring parameters at once. Match your Teqwave transmitter perfectly to your production needs by flexible definition and extension of your application range.

Características y especificaciones

Densidad/concentración

Measuring principle

Concentración ultrasónica

Título del producto

Inline device with best-in-class hygienic design – plug and play for food and beverage processes.

High accuracy and repeatability – concentration calculation with latest algorithms.

Continuous quality monitoring of beverages and in cleaning processes.

Características del sensor

Fulfilment of hygienic requirements – easily cleanable full-bore sensor.

Full transparency – constant monitoring of product quality without sampling. Highest process safety – reliable metering due to robust, maintenance-free sensor.

Nominal diameter: DN 25 (1"). Accurate and independent of flow profile.

Sensor housing made of stainless steel (3-A, EHEDG).

Características del transmisor

Customized usage – innovative application concept, expendable for changing measuring tasks. Simplified process control – user-friendly operation and clear status visualization. Local data backup – integrated data storage for measured values up to 7,5 years.

Industry-compliant, easy installation via DIN rail. 3.5" TFT color touch screen or LED indication. 4-20 mA, Modbus TCP.

Rango de diámetro nominal

DN 8 (3/8") to DN 25 (1")

Variables medidas

Concentration, density, sound velocity, temperature

Densidad/concentración**Error de medición máx.**Density: $\pm 0.01 \text{g/cm}^3$ Temperature: $\pm 0.5 \text{K}$ Sound velocity: 2m/s

Rango de medición

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

Máx. presión de procesomax. 16 bar at $20 \text{ }^\circ\text{C}$ (232 psi at $68 \text{ }^\circ\text{F}$)

Rango de temperatura del medio0 to $100 \text{ }^\circ\text{C}$ (32 to $212 \text{ }^\circ\text{F}$)

Rango de temperatura ambiente0 to $50 \text{ }^\circ\text{C}$ (32 to $122 \text{ }^\circ\text{F}$)

Material de carcasa del sensorStainless steel V4A 1.4571

Grado de protección

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

Transmitter: IP40

Pantalla/Operación

LED status indication

TFT color touch display

Salidas $4\text{-}20 \text{mA}$ / Modbus TCP

EntradasDC 24 V (18 to 35 V)

Densidad/concentración

Suministro de energía

Suministro de energía

Aprobaciones para áreas peligrosas

Non-hazardous area

UK; Non-hazardous area

Seguridad del producto

CE, C-tick

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