

Teqwave H – Ultrasonic concentration meter

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



Дополнительная информация и актуальные цен:

www.casc.endress.com/D9NB

Преимущества:

- 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

Краткие характеристики

- **Макс. погрешность измерения** Density: $\pm 0.01\text{g/cm}^3$
Temperature: $\pm 0.5\text{K}$ Sound velocity: 2m/s
- **Диапазон измерения** 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
- **Диапазон температур продукта** 0 to $120\text{ }^\circ\text{C}$ (32 to $248\text{ }^\circ\text{F}$)
- **Макс. рабочее давление** max. 16 bar at $20\text{ }^\circ\text{C}$ (232 psi at $68\text{ }^\circ\text{F}$)

Назначение: 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.

Характеристики и спецификации

Плотность/концентрация

Принцип измерения

Ультразвуковое измерение концентрации

Заголовок для продукта

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.

Функции датчика

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).

Особенности преобразователя

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.

Диапазон номинальных диаметров

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

Измеряемые параметры

Concentration, density, sound velocity, temperature

Плотность/концентрация**Макс. погрешность измерения**Density: $\pm 0.01 \text{g/cm}^3$ Temperature: $\pm 0.5 \text{K}$ Sound velocity: 2m/s **Диапазон измерения**

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 **Макс. рабочее давление**max. 16 bar at $20 \text{ }^\circ\text{C}$ (232 psi at $68 \text{ }^\circ\text{F}$)**Диапазон температур продукта**0 to $120 \text{ }^\circ\text{C}$ (32 to $248 \text{ }^\circ\text{F}$)**Диапазон окружающей температуры**0 to $50 \text{ }^\circ\text{C}$ (32 to $122 \text{ }^\circ\text{F}$)**Материал корпуса сенсора**

Stainless steel V4A 1.4571

Степень защиты

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

Transmitter: IP40

Дисплей/Настройка

LED status indication

TFT color touch display

Выходные сигналы

4-20mA / Modbus TCP

Входные сигналыDC 24 V (18 to 35 V)

Плотность/концентрация

Источник питания

Источник питания

Сертификаты на взрывозащиту

Non-hazardous area

UK; Non-hazardous area

Безопасность изделия

CE, C-tick

Дополнительная информация www.casc.endress.com/D9HB