

Teqwave H – 超声浓度测量仪表

管道式浓度测量仪表，遵循最严格的卫生标准设计，即插即用，适用于食品与饮料生产过程



详细信息和最新价格参见:

www.endress.com.cn/D9HB

优势:

- 高测量精度和重复性：基于最新算法计算浓度
- 符合卫生要求：全通径传感器，易清洗
- 完全透明：不间断监测产品质量，无需抽检
- 最高过程安全性：传感器坚固耐用，免维护，可靠计量
- 按需定制：创新的设计理念，灵活扩展适应不同的测量任务
- 简化过程控制：操作便捷，状态显示清晰明了
- 现场数据备份：内置测量值数据存储单元，保存时间可长达7.5年

产品规格参数

- **最大测量误差** Density: $\pm 0.01 \text{g/cm}^3$ Temperature: $\pm 0.5 \text{K}$ Sound velocity: 2m/s
- **测量范围** 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
- **介质温度范围** 0 to $100 \text{ }^\circ\text{C}$ (32 to $212 \text{ }^\circ\text{F}$)
- **最大过程压力** max. 16 bar at $20 \text{ }^\circ\text{C}$ (232 psi at $68 \text{ }^\circ\text{F}$)

应用领域: Teqwave H是卫生应用场合中进行在线液体分析的理想选择，比如烈酒和软饮生产。高精度在线浓度测量结果和卫生型结构设计深得最终客户和设备制造商的喜爱。Teqwave支持多参数监测，有效降低了使用成本。灵活设定和扩展适用范围，Teqwave变送器满足不同用户的实际生产需求。

特征和规格

Density/Concentration

测量原理

Ultrasonic concentration

Density/Concentration

产品标题

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.

传感器特点

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).

变送器特点

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.

公称口径范围

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

测量变量

Concentration, density, sound velocity, temperature

最大测量误差

Density: $\pm 0.01 \text{g/cm}^3$

Temperature: $\pm 0.5 \text{K}$

Sound velocity: 2m/s

Density/Concentration**测量范围**

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

最大过程压力

max. 16 bar at 20 °C (232 psi at 68 °F)

介质温度范围

0 to 100 °C (32 to 212 °F)

环境温度范围

0 to 50 °C (32 to 122 °F)

传感器外壳材质

Stainless steel V4A 1.4571

防护等级

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

Transmitter: IP40

显示/操作

LED status indication

TFT color touch display

输出

4-20mA / Modbus TCP

输入

DC 24 V (18 to 35 V)

电源

电源

Density/Concentration

防爆认证

Non-hazardous area
UK; Non-hazardous area

产品安全性

CE, C-tick

更多信息 www.endress.com.cn/D9HB