



CCM B34 BROCHURE

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Introduction

Rhosonics' model B34 is part of the Chemical Concentration Meter (CCM) series and is specifically designed to measure the concentration of binary liquids. The B34 is perfect for customers who require a reliable and cost-effective solution for single-component concentration measurements.

Features and benefits

- Real-time measurement
- Accurate and reliable results
- Low maintenance

Measuring methods

The speed of sound is determined by measuring the time that the ultrasonic wave takes to travel over a known distance in the liquid, known as the time of flight.

Applications

The B34 can be used in a variety of applications that involve binary chemical solutions, including but not limited to mixing and dilution processes for chemicals used in production facilities for semiconductors and flat panels.

Chemicals/Capabilities

Rhosonics has experience with chemicals such as HCL, H2SO4, KOH, and TMAH. While other CCM models are designed for multi-component solutions (up to three components in a solution), the B34 model is ideal for those requiring accurate measurements in single-component solutions. Like other CCM models, the B34 is easy to use and requires minimal time to set up.

With the B34, you can expect accurate and precise measurements every time within the PPM range. The device is designed to be user-friendly, allowing operators to determine the concentration of their single chemical mixtures quickly and easily. Plus, the compact and durable design of the B34 ensures compatibility with chemical environments.

Installation

The CCM B34 comes with a PrimeLock® or Flaretek® connection (or others on request) for small tubes, so this meter is installed in a by-pass.

Datasheet

 DATA SHEET FOR Chemical Concentration Meter <small>Proven Process Insights</small>		
GENERAL	Part-number	B34
	Description	Chemical concentration meter (1x chemical)
	Method	Speed of sound
	Readings	Concentration (g/l) & Temperature (°C)
TRANSMITTER & SENSOR	Concentration range	0...100 WT%
	Concentration accuracy	± 0.001WT%
	Temperature accuracy	Up to 50°C
	Process temperature	5 °C to +50 °C (41 °F to 122°F)
	Max. pressure	4 bar
	Power supply	24VDC (18...32V), 8 Watt
	Output	Modbus RTU over RS-232
	Data logging	Continuous, retrievable via USB stick Note: max. 65535 entries of data can be stored
	Cable glands	2x M16X1.5 cable glands for Ø 2-6 mm cable
	Ambient temperature	5 °C to +60 °C (41 °F to 140 °F)
	Humidity	< 95% at 40 °C (noncondensing)
	Display	240x128 dots (WxH), 5 colors
	Process connection	RS232
	Protection rating	IP65, NEMA 4
Dimensions	200 (W) x 225 (H) x 142 mm (D)	
Weight	+/- 11 kg	

2023 RHOSONICS - specifications are subject to change without notice - 05/2023

Contact

To learn more about the B34 or other models, please contact our sales team who will be happy to assist you in finding the best solution for your specific needs.

Phone: +31 341 370 073
 Email: info@rhosonics.com
 Website: www.rhosonics.com





ADDRESS
Hoge Eng West 30
3882 TR Putten

CONTACT
+31 341 37 00 73
info@rhosonics.com