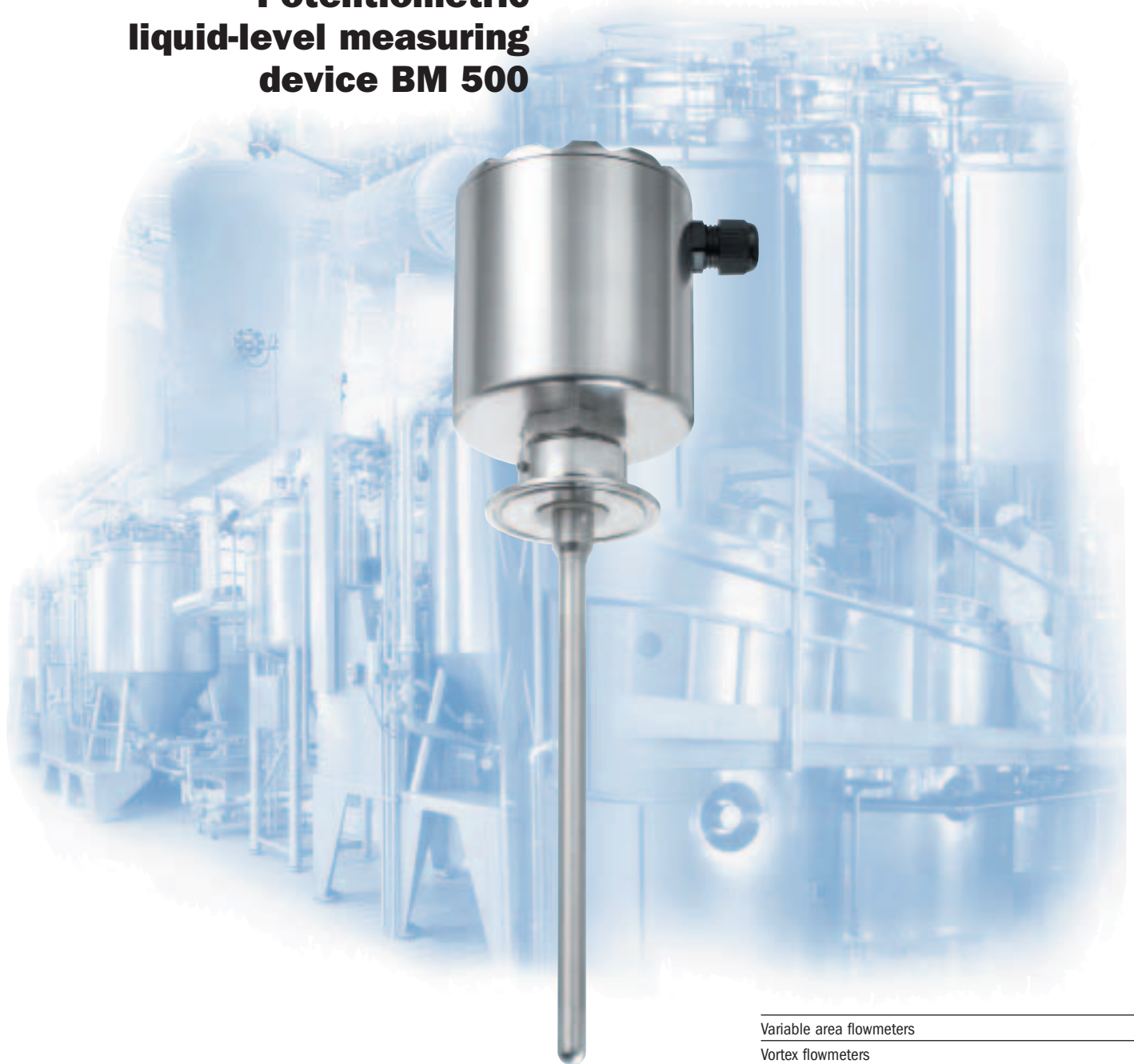


Potentiometric liquid-level measuring device BM 500



- independent of product properties
- immune to deposits and foam
- particularly suitable for small tanks
- defined empty signalling function
- sanitary installation
- fast response time
- Level measurement possible from 2" ... 32" or 50 mm ... 810 mm

Variable area flowmeters

Vortex flowmeters

Flow controllers

Electromagnetic flowmeters

Ultrasonic flowmeters

Mass flowmeters

Level measuring instruments

Communications technology

Engineering systems & solutions

Switches, counters, displays and recorders

Heat metering

Pressure and temperature

The **BM 500** level gauge operates on the potentiometric measuring principle and is designed for use in all electrically conductive products with a minimum conductivity of 1 µS/cm (e.g. distilled water).

This method is particularly suitable for measuring levels in small vessels containing viscous, pasty or heavily caking products. The electronic evaluation unit is integrated in the connecting head and supplies a level-proportional output signal of 4 ... 20 mA.

The HWM 500 sanitary process welding sleeve ensures installation in conformity with standards of hygiene. Due to its high temperature resistance (285°F or 140°C), the **BM 500** is eminently suitable for CIP cleaning and sterilizing processes.

Fields of application

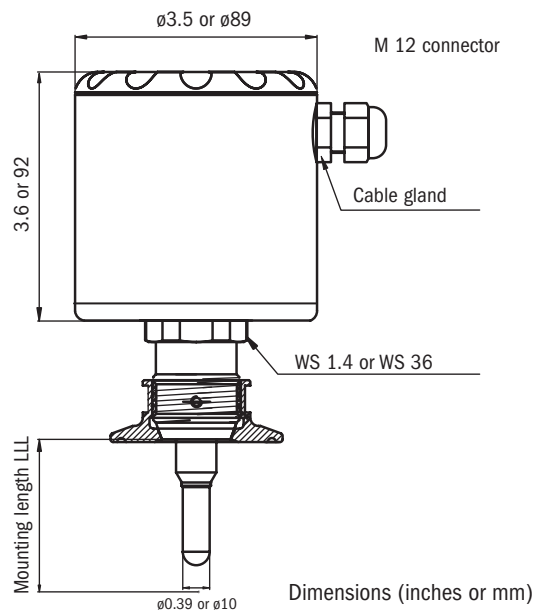
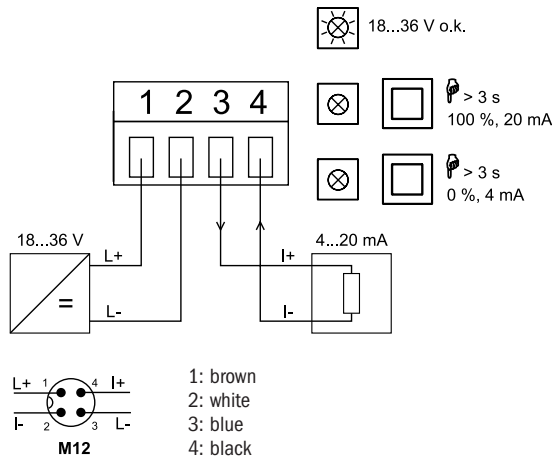
- Fruit juice
- Ketchup
- Beer
- Toothpaste
- Dairy products

Technical data

Primary head	BM 500
Operating principle	potentiometric level measurement
Process conditions	
Pressure	-14.5 ... 145 psig or -1 ... 10 bar
Process temperature	-4...+285°F or -20...+140°C
Conductivity	≥ 1 µS/cm
Materials	
Sensor	SS 316 Ti, 0.4" or 10 mm dia.
Housing	SS 303
Insulating	PEEK (FDA accepted)
Versions	
Length of sensor (inches)	7.9 ... 79
Length of sensor (mm)	200 ... 2000
Process connection	Tri-Clamp or other
Installation position	from bottom to top, automatic identification of bottom/top

Electronic unit	
Current output	4...20 mA, load impedance max. 500 Ω
Supply power	18...36 V DC, 120 mA
Accuracy	< 1% of sensor length
Repeatability	< 0.5%
Electrical connection	cable gland or M12 plug
Type of protection	IP 67 equivalent to NEMA 4
Approvals	3 A; EHEDG
Accessories	
<u>Welding sleeve HWN 500</u>	
Sanitary sleeve of stainless steel 316 Ti, with welding mark for defined alignment of cable gland or M12 plug.	
Sanitary adapter sleeves available for other process connections	
Adapter sleeve available.	

Electrical connections and Dimensions



USA
 KROHNE Inc.
 7 Dearborn Road
 Peabody, MA 01960
 TEL.: +1-978 535-6060
 FAX: +1-978 535-1720
 e-mail: info@krohne.com