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LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE Indianapolic
INSTRUMENTATION
PASTEURIZATION CONTROLS



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## **HB** "Mini" Level Transmitter

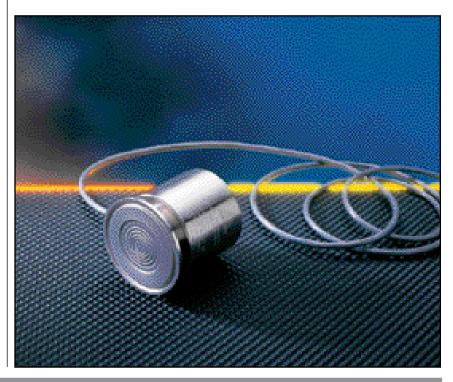
#### **FEATURES:**

- Specifically designed for balance tank, CIP vessel, and other sanitary level control applications
- Rugged reliability in the harshest applications and environments
- Compact, ultra-sanitary package meets or exceeds requirements for Food, Beverage, Dairy and Bio-Pharmaceutical applications
- Fast shipment 
   (4 day standard)

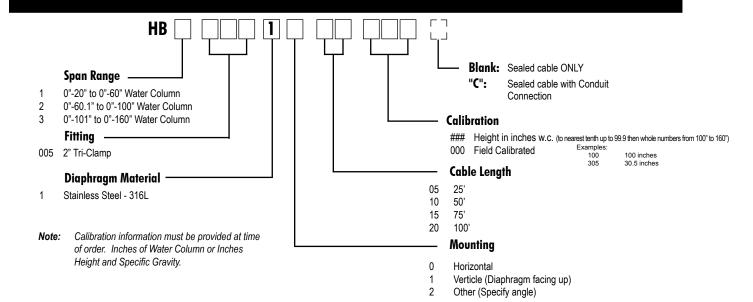
The "HB" has been specifically designed for use in simple level control applications such as balance tanks and CIP vessels. We understand the harsh environment typically encountered in such applications and have designed this product to stand up to direct wash-downs and wide variations in temperature. The sensor is available in three ranges for tanks 20" to 60" ("low range"), 60.1" to 100" ("mid range") and 101" to160"

("high range"). Connections includes a 2" Tri-Clamp® and all sensors are supplied with up to 100' of sealed, shielded cable (25' is standard). Internal compensation allows the transmitter to perform at temperatures up to 200° F (93° C) and withstand cleaning and sterilization to 250° F (121° C).

Detailed specifications, ordering matrix and application information are listed on the reverse.



# **Complete Product Ordering Matrix**



### **GENERAL SPECIFICATIONS**

#### **Environmental Specifications**

Ambient Operating Temperature Range: 40°F to 120°F (4°C to 49°C)

Storage Temperature Range: -40°F to 250°F (-40°C to 121°C)

Humidity: 0 to 95% RH, condensing

#### **Material / Construction**

Housing: 304 Stainless Steel, R<sub>2</sub>40 maximum finish

Wetted Parts: 316L Stainless Steel, R 25 maximum finish

Process Connection: 2" Tri-Clamp

NEMA 4X/IP-66,IP-67 3A Authorized Ratings:

Standards: Designed and manufactured to sound

engineering practices in accordance with

Article 3.3 of the PED 97/23/EC

CSA B51-03

CRN# CSA0F9754.5C

#### **Operating Specifications**

HB1 0-20" to 0-60" Water Column HB2 0-60.1" to 0-100" Water Column HB3 0-101" to 0-160" Water Column Range:

Factory calibrated to +/-0.2% of Upper Accuracy:

Range Limit (URL) Stabilized at 75°F (24°C)

32°F to 250°F (0°C to 121°C) **Process Temperature Limits:** 

Compensated 32°F to 200°F (0°C to 93°C)

Within +/-2.0"/100°F over the compensated Temperature Stability:

process and ambient operational temperature

Over-Range Capacity: 2.5 times Upper Range Limit

Response Time: 200 uSec

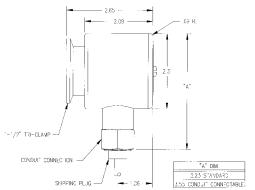
#### Power / Signal / Electrical

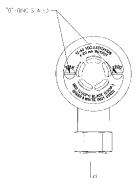
**Electrical Ratings:** 

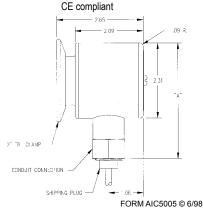
12-40 VDC Voltage:

Load Impedance: 1400 ohms (max) @ 40 VDC

Output: 4-20 mA DC, 2-wire







Revised: March 2010 Supersedes: March 2009