

Product Information - HB "Mini" Level Transmitter

LIFE SCIENCES

FOOD

HB "Mini" Level Transmitter

Introduction

The HB Mini level transmitter is specifically intended for use in shallow level control applications such as balance tanks, stationary fillers bowls and CIP make up vessels. Uniquely designed to thrive in sanitary process environments the HB has the durability to withstand pressurized wash-downs, cascading water, and condensing humidity. Dual diaphragm architecture, fully potted electronics and a welded sealed stainless enclosure assure years of trouble free service.

Utilizing a highly accurate pressure cell to measure hydrostatic head, the HB ignores false level readings from foam, accommodates low or nonconductive fluids and conveniently mounts on the bottom or lower side of vessels. Compact in size with a 2" Tri-Clamp connection, the HB is easily mounted in the tightest of piping layouts. The HB is available in three ranges 20" to 60" (HB1 low-range), 60.1" to 100" (HB2 mid-range) and 101" to 160" (HB3 high range). Internal temperature compensation allows the transmitter to perform accurately at temperatures to 200°F (93°C) and withstand CIP and SIP to 250°F (121°C). Standard m12 quick disconnect receptacle when paired with the Anderson shielded molded cord-set provides a secure and convenient waterproof connection; alternatively available with sealed, shielded cable with ½" female NPT to accommodate conduit connection.

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



Authorizations



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 Life Sciences applications
- · Fast shipment (4 day standard)

Applications

- · Pasteurization balance tanks
- · CIP make up vessels
- Process shallow vessel level measurement
- · Vessel level monitoring in wet hostile environments

FOOD

LIFE SCIENCES

Specifications

Environmental Specifications

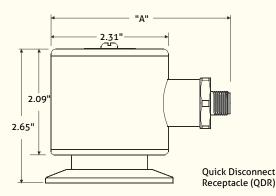
Ambient Operating	
Temperature Range:	40°F to 120°F (4°C to 49°C)
Storage Temperature	
Range:	-40°F to 250°F (-40°C to 121°C)
Humidity:	0 to 95% RH, condensing
-	-

Material / Construction

Housing:	304 Stainless Steel, Ra40 maximum finish
Wetted Parts:	316L Stainless Steel, Ra25 maximum finish
Process Connection:	2" Tri-Clamp

Approvals & Documentation Ratings: NEMA

Ratings:	NEMA 4X/IP-66,IP-67 3A Authorized
-	Models equipped with optional conduit
	connector must be installed with conduit to
	maintain environmental rating
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

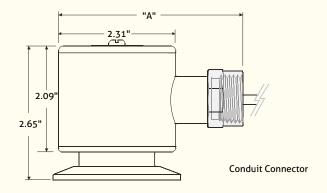


Recommended Cable: Shielded 5 pin M12 molded cordset Pins 1 & 2 Active, Shield must connect to cordset nut

Operating Specification	ons
Range:	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
Over-Range Capacity:	2.5 times Upper Range Limit
Response Time:	200 uSec
Accuracy:	Factory calibrated to ±0.2% of Upper
-	Range Limit (URL) Stabilized at 75°F (24°C)
Process Temperature Limits: 32°F to 250°F (0°C to 121°C)	
·	Compensated 32°F to 200°F (0°C to 93°C)
Temperature Stability:	Within ±2.0"/100°F over the compensated
, ,	process and ambient operational
	temperature range

Power / Signal / Electrical

12-40 VDC
1400 ohms (max) @ 40 VDC
4-20 mA DC, 2-wire
Standard - 5 pin M12
Pins 1 & 2 active



Optional: Sealed Cable with 1/2" NPT Conduit Connection

HB| 0 0 5 1 Span Range Calibration 1 0"-20" to 0"-60" Water Column 2 0"-60.1" to 0"-100" Water Column ### Height in inches w.c. (to nearest tenth up to 99.9 then 3 0"-101" to 0"-160" Water Column whole numbers from 100" to 160") 000 Field Calibrated Examples: Fitting 100 inches 100 305 30.5 inches 005 2" Tri-Clamp **Cable Length Diaphragm Material** QDR w/No Cable, no FWC 1 Stainless Steel - 316L AO Sealed Cable w/Conduit Connection and 25' Cable C1 Sealed Cable w/Conduit Connection and 50' Cable C2 Sealed Cable w/Conduit Connection and 100' Cable C3 Note: Calibration information must be provided Mounting at time of order. Inches of Water Column or Inches Height and Specific Gravity. 0 Horizontal Verticle (Diaphragm facing up) 1 2 Other (Specify angle) 05005 / 2.0 / 2015-03-20 / PW / NA

ANDERSON INSTRUMENT COMPANY 156 Auriesville Road Fultonville, NY 12072

Order Information

Phone 800-833-0081 Fax 518-922-8997 info@anderson-negele.com Tech. Support: techservice@anderson-negele.com Phone 800-833-0081