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ПРОМЫШЛЕННЫЕ РН-ЭЛЕКТРОДЫ

Технические характеристики
HBD546

HBD546 – In-line & Submersible pH Electrode

Series HBD

Specifications

Overview

Honeywell's HBD Series of pH electrodes are for applications with high pressure and temperature as well high and low pH ranges. They are intended for the harshest of applications where traditional glass sensors and reference electrode technology do not stand up. The HBD Series combines the superior stability and ruggedness of the Durafet sensor with a unique reference technology that resists poisoning and fouling.

The **HBD546** is:

- intended for threaded in-line and submersible operations
- rugged, versatile and simple to use
- compatible with most industrial transmitters and analyzers

Honeywell's HBD Series of electrode mountings utilize the patented Unique Reference Cell Technology.

The Unique Reference Technology:

- prevents sensor poisoning
- prevent internal leaks
- prevent internal plugging
- allows extreme temperature and pressure tolerance
- allows for long life in low and high pH applications



Description

The HBD546 offers a reliable combination style pH electrode with measuring and reference electrode together with an temperature sensor in a 1-piece corrosion resistant Kynar body.

The HBD546 electrode has two 3/4" NPT male threads for various mounting configurations. One can be used to thread the electrode into a pipe tee for in-line mounting. The other can be used with a pipe coupling and support pipe for submersion mountings.



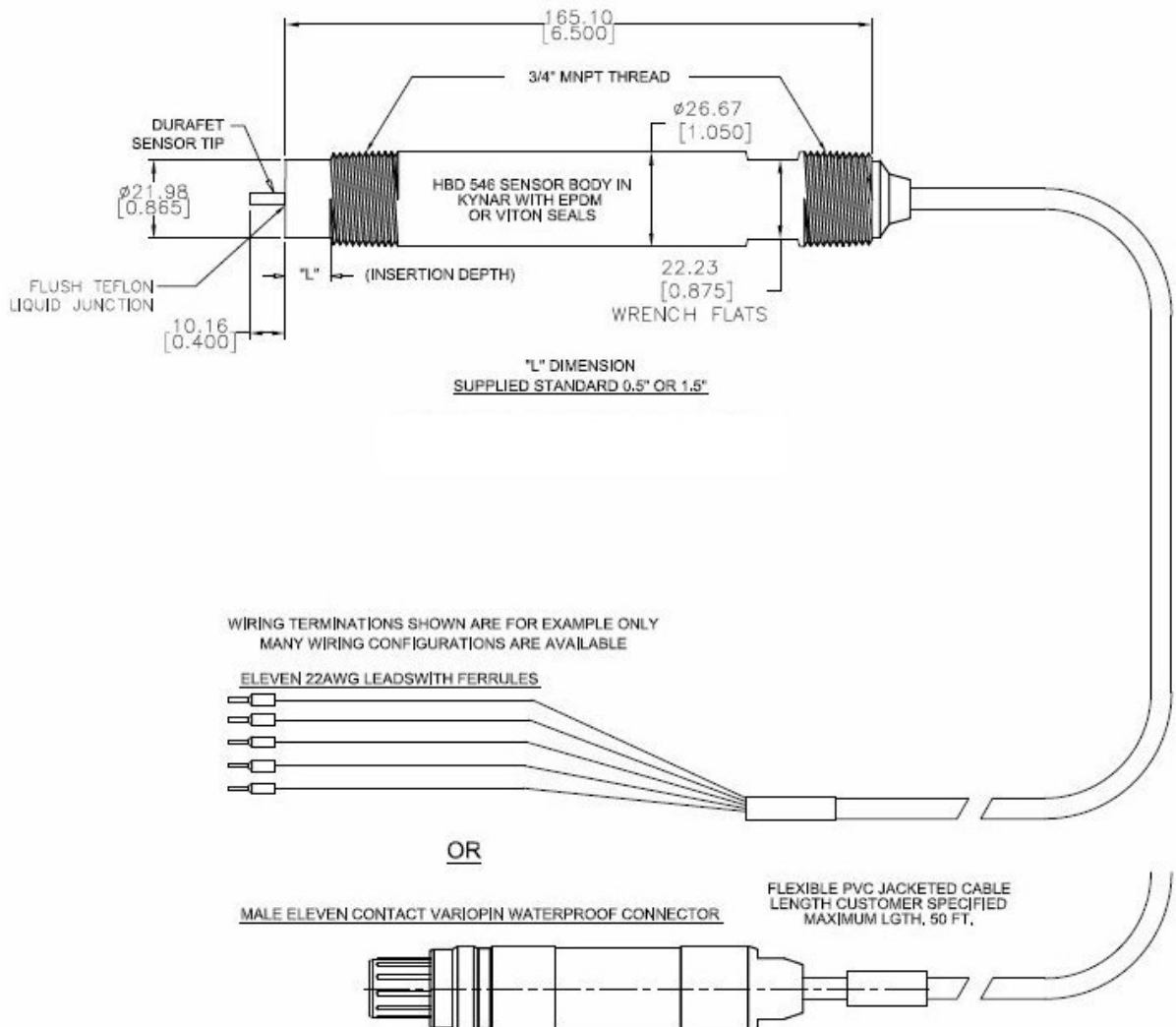
Unique Reference Technology

Like other rugged semi-solid state references, the reference is formed by a series of wood segments impregnated with KCL. The difference with the HBD Series technology is where others utilize an epoxy or impermeable barrier between each of the wood segments; the HBD Series uses a pair of formed discs.

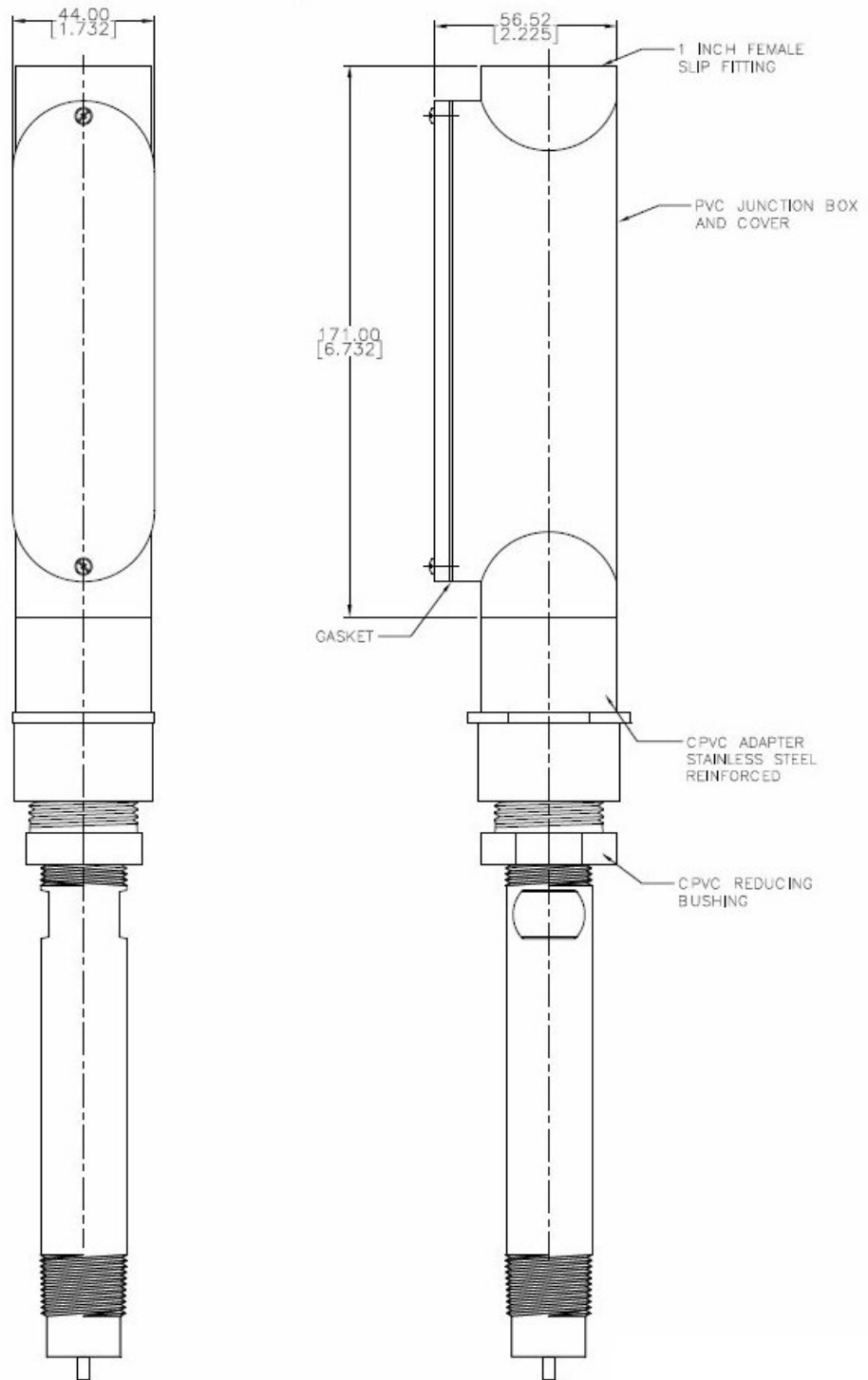
When the two formed disc faces are positioned adjacent to one another they form a tortuous path (filled with electrolyte) between each of the segments. This path provides a more complete transition of KCl ions between the wood segments forward and creates a difficult and longer distance for poisons traveling back into the reference from the specimen fluid.

The reference junction is made of Teflon and acts as the interface between the process fluid and the reference electrode. This is a porous surface, which passes ions between the reference and measurement fluid. The primary function is to allow very small amounts of KCl to leach from the reference and provide the millivolts necessary for pH measurement. The secondary function is to maintain a barrier between the measurement fluid and the reference so that the measurement fluid does not rapidly poison or foul the reference.

Dimension Drawing



Dimension Drawing



HBD546 with optional junction box

Features

HBD546 Electrode

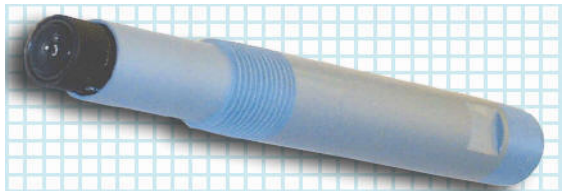
- Non-Glass Ion Sensitive Field Effect Transistor (ISFET) pH sensor
- Rugged, virtually non-breakable
- Long lasting stability in the harshest of application environments Integral automatic temperature compensator
- Chemically resistant Kynar body
- Great for high temperature and high pressure applications
- Can be used in both low and high pH conditions
- Rugged, quick-change, quick-clean
- Compatible with most industrial transmitters and analyzers

Specifications

Electrode	
Pressure and Temperature Rating	50 psig, 100°C 100 psig, 50°C
Operating Range	0-14 pH
Mounting	Threaded in-line: 3/4" MNPT threaded nose for installation into process, sample line or automatic cleaning system. Submerged: 3/4" MNPT threaded top for connection to 3/4" FNPT coupling and extension pipe.
Wetted Materials	Kynar, porous Teflon, Viton, Ryton, EPDM & Silicon
Cable Options	20 ft (6.1 m) and 50 ft (15.2 m) integral ferrule terminated leads or 10 inch integral VarioPin connector
Temperature Sensor	8550 Ohm Thermistor, Pt1000 RTD
Weight	Approximately 0. 23 kg (0.5 lb)

Specifications are subject to change without notice.

- Designed for insertion applications with 3/4" or larger NPT threaded process pipe.
 - Also suitable for submersible applications
- ATTENTION:**
- ☆ See last page for FAST DELIVERY OPTIONS! ☆



Instructions

- Consult Steps to Selecting Appropriate pH/ORP Instrumentation and Cells before making selections below.
 - Select the desired key number. The arrow to the right marks the selection available.
 - Make one selection from each Table using the column below the proper arrow. A dot denotes unrestricted availability.
- Key Number I II III IV
- HBD546 - - - -

KEY NUMBER	Description	Selection	Availability
HBD546	General Purpose 3/4" MNPT Threaded Inline & Submersible	HBD546	↓

TABLE I - Material

Body Material	Kynar	B	•
O-Ring Material	Viton	- V - -	•
	EPDM	- E - -	•
Reference Plug Material	Standard	- - S -	•
Measuring Electrode	Durafet	- - - D	•

TABLE II - Sensor Options

Tip Configuration	Flush Teflon Junction	T - - -	•
Temp Sensor	Honeywell 8550 ohm	- H - -	•
	Pt100 RTD PT1000	- C - -	•
	RTD	- K - -	•
Body Options	Standard	- - S -	•
Insertion Depth	Standard Configuration (0.9" Insertion Depth)	- - - N	•
	1.9"	- - - 1	•

TABLE III - Cables & Leads

		Selection	Availability
Cable Configuration	10" Pigtail for use with Junction Box (Note 1)	T T - -	•
	20' Cable	20 - -	•
	50' Cable	50 - -	•
Lead Terminations	All Tinned Leads	- - S T	d
	Vario Pin for Extension Cables	- - V P	e

TABLE IV - Future Use

Future Use	0 __	•
Future Use	_ 0 _	•
Future Use	_ _ 0	•

Note 1: For new installations order extension cable and junction box from Accessory Table.

RESTRICTIONS

Restriction Letter		Available Only With	Not Available With	
d e	Table		Table	
■	III	20 __, 50 __		
	III	T T __		

ACCESSORIES

Description	Part Number
Extension Cables - Only compatible with pH electrodes & lead terminations = VP (Direct Connect to UDA2182) Connection to instrument is tinned lead 20' 50'	50001391-501 50001391-502
Extension Cables - Only compatible with pH electrodes & lead terminations = VP (Cap Adapter Cables) Connection to instrument is tinned lead 20' 50'	51453388-501 51453388-502
Junction Box	50072803-501
Tip Protector	31075715-501

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