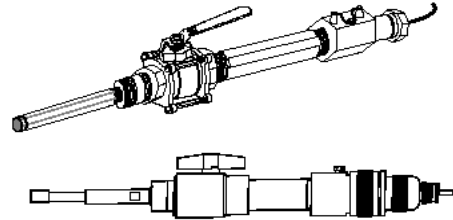


## 4909 Conductivity Cells

(See MSG 51-52-16-90 for 4908 Replacement Cells)

## Model Selection Guide

- Allows insertion or removal of cell without interruption to process
- Available in 316 stainless steel or CPVC
- Allows safe removal at pressures up to 50 psi



Top: 4909 SS Insertion/Removal Cell Assembly  
Bottom: 4909 CPVC Plastic Insertion/Removal Cell Assembly

### Instructions

- Consult Steps to Selecting Appropriate Conductivity 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 --	V --	VI -----	VII -----
	VIII - 000						

04909-001-33-333-X1-02-000-000-0

KEY NUMBER	Description	Selection	Availability
04909	Complete Conductivity Cell Assembly (Note 1)	04909	↓

TABLE I - Cell Constant

Cell Constant	Description	Selection	Availability
	0.01	001	•
	0.1	X01	•
	1	XX1	•
	10	X10	•
	50	X50	k

TABLE II - Electrode Material

Electrode Material	Description	Selection	Availability
	Nickel (Note 3)	33	n
	Platinum (Note 3)	44	n
	Monel (Note 5)	55	m

TABLE III - Automatic Temperature Compensation

Description	Selection	Availability
Available for APT2000/4000CC and UDA2182	333	•

049 ↓

**TABLE IV - Leadwire Length**

			Selection	09
Leadwire Length	20 ft. (6,10 meters) Leadwire Junction Head (Aluminum)	(Note 4)	20 X1	• •

**TABLE V - Valve/Cell Materials**

Valve/Cell Material	Material		
4909 Stainless Steel (SS) Valve Assembly	Includes SS Valve assembly and Standard insertion cell	02	c
4909 CPVC Valve Assembly	Includes CPVC assembly and standard CPVC Support tube and cell	03	d

**TABLE VI - Special Mounting Options**

Special Mounting Options - select one option per unit			
None		000	•
SS support tube for 4909 SS Valve assemblies only. Use Table V Option = 02		930	e
Special insertion lengths for new/replacement cells for 4909 SS Valve Assemblies. Only available for Table V Option = 02	Uses special insertion cell to increase standard insertion cell depth by 4.4" (111,76 mm)	910	h

**TABLE VII - OPTIONS**

Tagging	None	0__	•
	Linen	L__	•
	Stainless Steel	S__	•
Certificate of Calibration	None (Note 2)	_0_	•
	Calibration & Conformance (Note 2)	_1_	•
Future		__0	•

**TABLE VIII - FACTORY USE**

Factory Use Only		000	•
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**Notes:**

1. When converting from 4806 to 4909, order 4908 directly.
2. The current selection system requires that Option 1 be chosen if a certificate is to be sent along with any of the available 4909/4908 cells.
3. For cell constants other than 0.1, Platinum is used in acid and base applications; Nickel is used in all others.
4. If shorter length is required, cut to length, skin and tin ends.
5. For all constant 0.1, Monel is used for all applications.

**RESTRICTIONS**

Restriction Letter	Available Only With		Not Available With	
	Table	Selection	Table	Selection
<b>c</b>	V	Standard insertion cell for SS valve assemblies consists of a conductivity cell of variable length based on the cell constant and a 13.2" (335,28 mm) PES tube molded to the cell. The conductivity cell insertion depth is listed below:  001, X01, XX1 = 7.5 in. (190,50 mm) X10 = 7.7 in. (195,58 mm) X50 = 8.8 in. (223,52 mm)		
<b>d</b>	V	Standard conductivity cell insertion depth dimensions according to cell constants for CPVC assemblies is listed below:  001, X01, XX1 = 5.5 in. (139,70 mm) X10 = 5.7 in. (144,78 mm) X50 = 6.8 in. (172,72 mm)		
<b>e</b>	V	02	I	X50
<b>h</b>	V	02		
<b>k</b>	I	For 9782C, 7082 and UDA2182		
<b>m</b>	I	X01		
<b>n</b>			I	X01

## 4909 and 4908 Conductivity Cells

## Accessories and Replacement Parts

Honeywell Proprietary

<b>Accessory Parts</b>	<b>Part Number</b>
Junction Box	50034477-501
Ball Valve Removal device	
316 SS (doesn't include 4908 Cell)	31741450-501
CPVC (doesn't include 4908 Cell)	31074357-501
CPVC Support tube. Used in 31074357 to extend cell insertion depth by 6". (Allow additional 6" for cell removal.)	31074344-501 (Only with Table IV = 20)
SS Support Tube for use with: Table IV = 20 , Table V = 02, Table VI = 930	50038762-501
SS Support Tube for use with: Table IV = X1, Table V = 02, Table VI = 930	50038763-501

<b>Replacement Parts</b>	
Viton Packing Gland for 1-1/4" NPT SS Assembly	31071494-501
Viton Packing Gland for 1-1/4" NPT Plastic Assembly	31074345-501

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