









Overview

To ensure optimal sensor performance and streamlined integration, Senovol has developed this comprehensive guide for the 4- and 7-Series Photoionization Detection (PID) electrode stacks. Our 4-Series PID sensor line utilizes a versatile range of eight unique electrode stacks, each distinguished by its specific physical and functional characteristics. In contrast, there is only one type of electrode stack for the 7-Series PID sensors. This technical note serves as a definitive reference to help our customers identify and procure the correct electrode stacks required for their sensors with confidence and precision.

There are eight types of Electrode Stacks for Senovol 4 Series PID (see below):

CATEGORY	TYPE				
	Window-pane Grid/Cross-grid	Dual-slotted Grid/Ladder-style	UI	Small-aperture Honeycomb (0.28)	Large-aperture Honeycomb (0.8)
Pin-mount / Plug-in					
Pogo Pin / Spring-loaded contact	Dual-slotted Grid	Small-aperture Honeycomb (0.2)	Large-aperture Honeycomb (0.8)	/	/
				/	/

There is only one type of electrode stack for Senovol 7 Series PID (see below):

Front View

Back View




Electrode Stack Selection for 4PID Sensors

4-Series PID (10.6 eV) - ATEX and IECEx Certified Version		
Product Name	Part Number	Electrode Stack Type
4PID-50C	PID-E06S-0500	Pin-mount—UI
4PID-200C	PID-E06S-2000	Pin-mount—Large-aperture Honeycomb (0.8)
4PID-2000C	PID-E06S-2001	Pin-mount—Large-aperture Honeycomb (0.8)
4PID-10000C	PID-E06S-1002	Pin-mount—Large-aperture Honeycomb (0.8)
4-Series PID (10.6 eV)		
Product Name	Part Number	Electrode Stack Type
4PID-5	PID-106S-0050	Pin-mount—Dual-slotted Grid
4PID-10	PID-106S-0100	Pin-mount—Dual-slotted Grid
4PID-50	PID-106S-0500	Pin-mount—Dual-slotted Grid
4PID-100	PID-106S-1000	Pin-mount—Window-pane Grid
4PID-200	PID-106S-2000	Pin-mount—Window-pane Grid
4PID-1000	PID-106S-1001	Pin-mount—Small-aperture Honeycomb (0.28)
4PID-2000	PID-106S-2001	Pin-mount—Small-aperture Honeycomb (0.28)
4PID-5000	PID-106S-5001	Pin-mount—Small-aperture Honeycomb (0.28)
4PID-10000	PID-106S-1002	Pin-mount—Small-aperture Honeycomb (0.28)
4-Series PID (9.8 eV)		
Product Name	Part Number	Electrode Stack Type
4PID-10 (9.8eV)	PID-098S-0100	Pin-mount—Dual-slotted Grid
4PID-50 (9.8eV)	PID-098S-0500	Pin-mount—Dual-slotted Grid
4PID-100 (9.8eV)	PID-098S-1000	Pin-mount—Window-pane Grid

4PID-200 (9.8eV)	PID-098S-2000	Pin-mount—Window-pane Grid
4PID-2000 (9.8eV)	PID-098S-2001	Pin-mount—Small-aperture Honeycomb (0.28)
Pending		
4-Series PID Plus (10.6 eV)		
Product Name	Part Number	Electrode Stack Type
4PID Plus-5	PID-106T-0050	POGO PIN—Dual-slotted Grid
4PID Plus-10	PID-106T-0100	POGO PIN—Dual-slotted Grid
4PID Plus-50	PID-106T-0500	POGO PIN—Large-aperture Honeycomb (0.8)
4PID Plus-100	PID-106T-1000	POGO PIN—Large-aperture Honeycomb (0.8)
4PID Plus-200	PID-106T-2000	POGO PIN—Large-aperture Honeycomb (0.8)
4PID Plus-1000	PID-106T-1001	POGO PIN—Small-aperture Honeycomb (0.2)
4PID Plus-2000	PID-106T-2001	POGO PIN—Small-aperture Honeycomb (0.2)
4PID Plus-5000	PID-106T-5001	POGO PIN—Small-aperture Honeycomb (0.2)
4PID Plus-10000	PID-106T-1002	POGO PIN—Small-aperture Honeycomb (0.2)

Electrode Stack for 7PID Sensors (10.6eV):

Product Name	Part Number	Electrode Stack Type
7PID-5	PID-106K-0050	<p>Only one type of electrode stack for all 7PID sensors:</p> 
7PID-10	PID-106K-0100	
7PID-20	PID-106K-0200	
7PID-50	PID-106K-0500	
7PID-100	PID-106K-1000	
7PID-200	PID-106K-2000	
7PID-1000	PID-106K-1001	
7PID-2000	PID-106K-2001	
7PID-5000	PID-106K-5001	
7PID-10000	PID-106K-1002	