

## PMV PRO External Sensors

### **Refiners Wand:**

**When to use it:** It is best to use the large or small bridge on the main unit or the external bridge when possible. Conditions where you cannot use the bridge sensors and should use the Refiners wand are listed below.

1. PRO set with no external bridge – Pure silver, silver alloy, and gold samples thicker than 12.5 mm and at least 24 mm wide.
2. PRO set with external bridge – Samples that are more than 45 mm thick or greater than 12.5 mm thick and between 24 and 50 mm wide.

### **Microwand:**

**When to use it:** It is best to use the large or small bridge on the main unit or the external bridge when possible. Conditions where you cannot use the bridge sensors and should use the Microwand are listed below.

1. PRO set with or without the External Bridge – All samples that are at least 3.5 mm wide and less than 10 mm wide for bars or less than 15 mm in diameter for coins. Microwand minimum thicknesses for the pure gold and silver/silver alloy samples is .4 mm thick. Gold alloy, platinum, palladium, or rhodium samples should be at least .8 mm thick.

### **External Bridge:**

**When to use it:** It is best to use the large or small bridge on the main unit when possible. Conditions where you cannot use the bridge sensors and should use the External Bridge are listed below.

1. Pure gold, pure silver, or silver alloy bars that at least 50 mm (about 2 inches) wide and 12.5 mm (about ½ inch) thick. Potential uses include 100 oz silver bars and most gold good deliver bars.
2. Cases in which you are concerned about possible thick cladding on these larger bars, or drilled out areas where other metals are inserted; therefore a thru measurement of the sample resistivity is needed. Also, the External Bridge's ability to get an electronic density measure of the bar is needed to augment the resistivity measurement.

## PMV PRO Sensor Specifications

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Sensor	Metal Type	Sample Thickness		Minimum Sample Diameter/Width (mm)	Detection Limit Gold over Tungsten (G.O.T.) (mm)
		Maximum Thickness (mm)	Minimum Thickness (mm)		
Large Bridge Main Unit	Silver & Silver Alloys	12.5	1.5	32.0 for coins 28.0 for bars	12.5
	Pure Gold		1.5		
	Platinum, Palladium, & Gold		2.5		
	Rhodium		2.0		
Small Bridge Main Unit	Silver & Silver Alloys	3.5	0.5	15.0 for coins 10.0 for bars	3.5
	Pure Gold		0.5		
	Platinum, Palladium, & Gold		0.8		
	Rhodium		0.6		
External Bridge Plug-in	Silver & Silver Alloys	45.0	12.0	50.0	45.0
	Pure Gold				
	Platinum, Palladium, & Gold				
	Rhodium				
Refiners Wand Plug-in	Silver & Silver Alloys	No limit	6.5	24	2.5
	Pure Gold		7.5		
Microwand Plug-in	Silver & Silver Alloys	No limit	0.4	3.5	0.12
	Pure Gold		0.4		
	Platinum, Palladium, & Gold		0.8		
	Rhodium		0.8		