

# Технические характеристики

## По вопросам продаж и поддержки обращайтесь:

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Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
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Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

# PANEL POTENTIOMETERS

Panel Potentiometers are variable resistors that are commonly used for all applications involving a reasonable number of cycles (few tens of thousands, manually actuated). Mounted behind the front panel for various equipment, they frequently feature buttons mounted on their shafts. Typical applications include: setting the light or the brightness of a screen, turning the volume for an audio application, setting the speed on tool machining equipment, or various parameters for industrial remote controls.






Typical markets include:

- Off-road tractors, excavators, cranes
- Avionic : overhead panels
- Medical : syringe pumps
- Industrial : various parameters to be set up on machines.



Key parameters defining a panel potentiometer:

- Resistive element material: depending on the application could be cermet or conductive plastic
- Overall dimensions, dependent on the available space for the application
- Sealing level: dependent on customers' constraints
- Lifespan requested directly related to the application
- Variation laws: a few are available (please refer to datasheets)
- Admissible power: wide-range function of the potentiometer model
- Other common options: detents (torque increase in determined position) / switches: rotary or push-push / multiple resistive modules (multi-gang potentiometers) / custom shafts and bushings/ inner and outer shafts actuating different resistive modules

In summary Vishay offers a very versatile family of products with a wide range of potential options.

Series	Product Image	Description	Multiple Modules	Switch Module	Detent Module	Special Electrical Laws	Sealing Level	Lifespan
148, 149		1/2" (12.7 mm) Conductive Plastic and Cermet Potentiometer	Up to 3 modules	Yes	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 64	50K cycles
248, 249		1/2" (12.7 mm) Conductive Plastic and Cermet Potentiometers	No	n/a	n/a	A: linear, L: logarithmic	IP 50	10K cycles
P10		3/8" Square Panel Potentiometer Miniature - Cermet - Fully Sealed	No	n/a	n/a	No, only A: linear	IP 67	10K cycles
P10L		Long Life Potentiometer - 500 000 Cycles Miniature - Cermet - Fully Sealed	No	n/a	n/a	No, only A: linear	IP 67	500K cycles
P11H		12.5 mm Modular High Torque Panel Potentiometer	Up to 7 modules	Yes	n/a	A: linear	IP 64	50K cycles

Series	Product Image	Description	Multiple Modules	Switch Module	Detent Module	Special Electrical Laws	Sealing Level	Lifespan
P11L		Long Life Cermet Potentiometer 2 Million Cycles	Up to 4 modules	Yes	Yes	A: linear, L: logarithmic, F: reverse logarithmic and others see specifications	IP 64	2M cycles
P11P, P11D		12.5 mm Modular Panel Potentiometer High Dielectric Strength	Up to 7 modules	Yes	Yes	A: linear, L: logarithmic, F: reverse logarithmic and others see specification	IP 64	50K cycles
P11S, P11A		12.5 mm Modular Panel Potentiometer Cermet (P11S) or Conductive Plastic Elements (P11A)	Up to 7 modules	Yes	Yes	A: linear, L: logarithmic, F: reverse logarithmic and others see specification	IP 64	50K cycles
P12		Fully Sealed Container Cermet Potentiometer Professional Grade	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	25K cycles
P13		Fully Sealed Container Cermet Potentiometer Professional Grade	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	25K cycles
P13L		Long Life Cermet Potentiometer up to 2 Million Cycles	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	1M cycles
P13SM		Fully Sealed Container Cermet Potentiometers Submarine Applications	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 68	25K cycles
P16, PA16		Knob Potentiometer	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	50K cycles
P16S, PA16S		Knob Potentiometer With Switch	No	Yes	Yes	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	10K cycles (switch), 50K
P30L		Long Life Potentiometer - 2 Million Cycles, Heavy Duty - Cermet, Fully Sealed	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	2M cycles
P9		9 mm Multi-Ganged Potentiometer	Up to 7 modules	n/a	Yes	A: linear, L: logarithmic, F: reverse logarithmic and others see specification	IP 64	25K cycles
PE30		Fully Sealed Potentiometer Professional Grade	No	n/a	Yes	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	25K cycles
PE60		Power Panel 6 W Potentiometer	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	25K cycles
PRV4		Industrial Potentiometer	No	n/a	Yes	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	25K cycle

Series	Product Image	Description	Multiple Modules	Switch Module	Detent Module	Special Electrical Laws	Sealing Level	Lifespan
PRV6		Fully Sealed Potentiometer Cermet or Conductive Plastic	No	n/a	n/a	A: linear, L: logarithmic, F: reverse logarithmic	IP 67	50K cycles
RV4L		Long Life / Heavy Duty Potentiometer	No	n/a	Yes	A: linear	IP 67	200K cycle

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