



Better Sound Controls for Professional Audio

Sensors and Specialist Components

BI Technologies

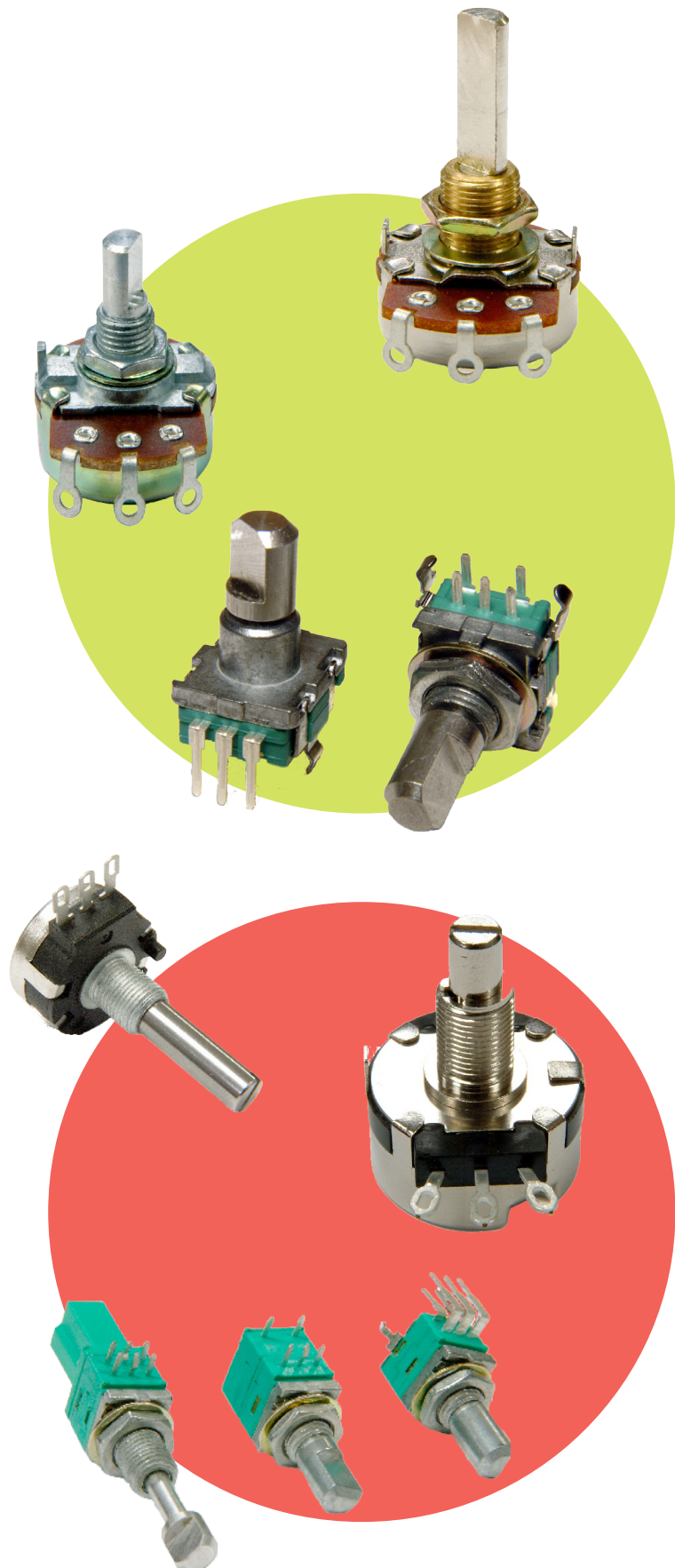


Better panel controls for pro audio applications. High quality without the hassle.

Committed to providing world-class products and service to the professional audio market, TT Electronics delivers high quality panel controls, exactly the way you want them. Our dedicated engineering team will work with you throughout the entire customization process to ensure you receive the specific products you need.

Designed and delivered to your exact requirements, TT Electronics has developed a comprehensive line of panel potentiometers and encoders specifically for professional audio applications, ideal for pre-amps, amplifiers, electric guitars, foot pedals, stomp boxes, digital drums, sound processors, broadcast mixing consoles, electric mixing boards and guitar effect consoles.

TT Electronics' panel controls provide the superior performance and customized feel needed for today's generation of products. Constructed with superior materials and built to robust designs, our potentiometers feature life cycles up to 2 million rotations.



Superior Quality

Constructed with conductive plastic elements, metal or plastic shafts on metal bushings, TT Electronics' controls have life cycles of up to 2 million rotations.

Customized Feel

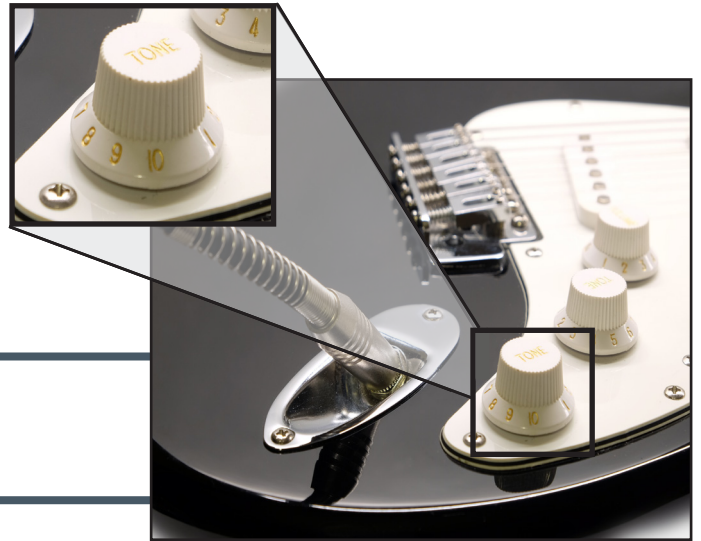
Customized tactile feel for precision turning.

More Playing Time

Longer life means fewer field failures and more playing time.

Dedicated Expertise Worldwide

Our global team of engineers are dedicated to providing you with the **knowledge and assistance** needed to get you the standard or customized panel pots you want.

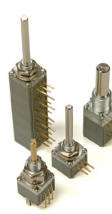


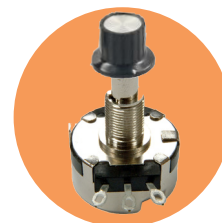
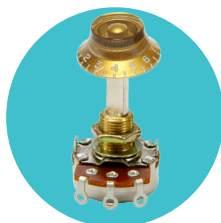
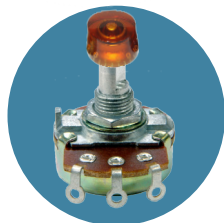
Special Requests Welcome

We offer customization capabilities including value add assembly and unique housing and shaft requirements.



Panel Potentiometers Selector Guide

	Model	Style	Package Size	Element	Shaft	Bushing	Power Rating	Rotational Life	Switch	Multi-Ganged
	P090L	Side adj.	9 mm	Con. Plas.	Plastic	N/A	0.03W	100K	N/A	N/A
	P090S	Top adj.	9 mm	Con. Plas.	Plastic	N/A	0.03W	100K	N/A	N/A
	P09xS/N	Side adj.	9 mm	Con. Plas.	Metal	Metal	0.05W	100K	Yes	8
	P09x5N	Top adj.	9 mm	Con. Plas.	Metal	Metal	0.05W	100K	N/A	2
	P110KV/KV1	Side adj.	11 mm	Con. Plas.	Plastic	Metal	0.05W	30K	N/A	N/A
	P110KH/KH1	Top adj.	11 mm	Con. Plas.	Plastic	Metal	0.05W	30K	N/A	N/A
	P120PK	Top adj.	12 mm	Con. Plas.	Plastic	N/A	0.05W	100K	N/A	2
	P120K	Side adj.	12 mm	Con. Plas.	Plastic	N/A	0.05W	100K	N/A	2
	P140KH/KH1	Top adj.	14 mm	Con. Plas.	Plastic	Metal	0.2W	30K	N/A	2
	P140KV/KV1	Side adj.	14 mm	Con. Plas.	Plastic	Metal	0.2W	30K	N/A	2
		Side adj. PC pin	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Yes	6
	P160KNPD	Rear adj. PC pin	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Yes	6
	P160KNP	Solder lug	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Yes	6
	P170S/N	Solder lug	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Yes	N/A
	P170S2/N2	Side adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Yes	N/A
	P170SP1/NP1	Top adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Yes	N/A
	P170SPD/NPD	Rear adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Yes	N/A
	P230	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	500K	N/A	N/A
	P231	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	100K	N/A	N/A
	P232	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	2,000K	N/A	1
	P233	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	2,000K	N/A	2
	P260P	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P260S (Switch)	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	100K	Yes	5
	P260D (Detent)	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	100K	N/A	6
	P260T	Top adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	Yes	2
	P261P	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P261S	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	Yes	5
	P261D	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P270	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	1
	P271	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	2
	P272	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	2



Model	Size	Adjust	Pulses	Detents	Switch	Bushing type	Shaft	Life
EN11-HSM	11 mm	Top	20	0, 20	Yes	Threaded	Metal	30K
EN11-HNM	11 mm	Top	20	0, 20	No	Threaded	Metal	30K
EN11-HSB	11 mm	Top	20	0, 20	Yes	Plain	Metal	30K
EN11-HNB	11 mm	Top	20	0, 20	No	Plain	Metal	30K
EN11-VSM	11 mm	Side	20	0, 20	Yes	Threaded	Metal	30K
EN11-VNM	11 mm	Side	20	0, 20	No	Threaded	Metal	30K
EN11-VSB	11 mm	Side	20	0, 20	Yes	Plain	Metal	30K
EN11-VNB	11 mm	Side	20	0, 20	No	Plain	Metal	30K
EN12-HS	12 mm	Top	12, 24	0, 12, 24	Yes	Sleeve	Plastic	30K
EN12-HN	12 mm	Top	12, 24	0, 12, 24	No	Sleeve	Plastic	30K
EN12-VS	12 mm	Side	12, 24	0, 12, 24	Yes	Sleeve	Plastic	30K
EN12-VN	12 mm	Side	12, 24	0, 12, 24	No	Sleeve	Plastic	30K
EN16-H	16 mm	Top	12, 24	0, 12, 24	No	Threaded	Plastic	30K
EN16-V	16 mm	Side	12, 24	0, 12, 24	No	Threaded	Plastic	30K

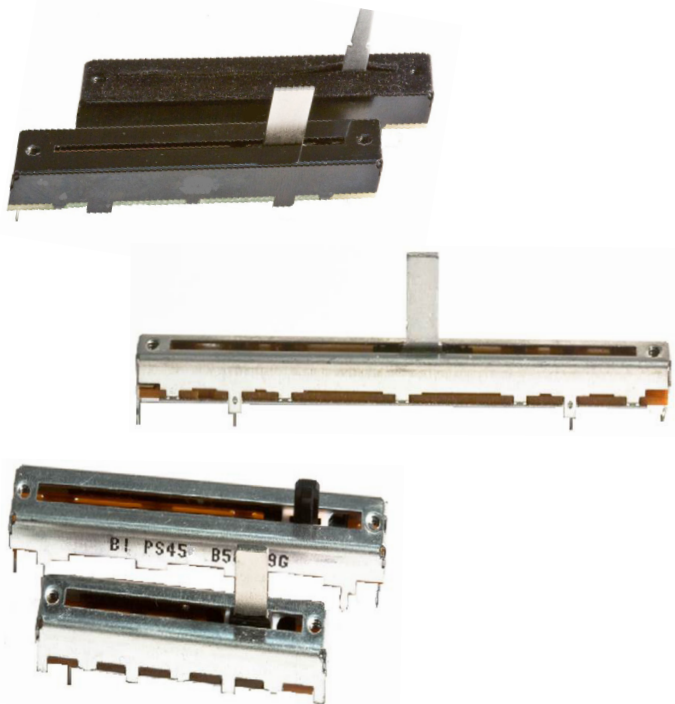
Superior panel controls for professional audio applications. Dedicated engineering expertise worldwide.

TT Electronics serves the professional audio market better than any other panel potentiometer supplier:

- Superior quality
- Longer rotational life
- Special requirements with standard availability
- Customized feel
- Broad product selection
- Worldwide availability

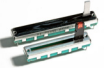
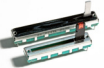
Slide Potentiometers

We offer high quality conductive plastic slide panel potentiometers commonly used in **audio mixing board applications**. We have various lengths of travel, with detent, and some models have a built-in LED to improve the look of the mixer.



Common applications include:

- Audio mixing consoles
- Portable DJ mixing boards
- Musical instrument builds in level control

	Model	Gang(s)	Element	Power Ratio	Cycle Life	Stroke Length	Dust Cover	Center Detent	LED
	PS45G	Dual	Con. Plas.	0.25W	200K	45mm	Yes	No	No
	PS60G	Dual	Con. Plas.	0.25W	200K	60mm	Yes	No	No
	PS100-1	Single	Con. Plas.	0.25W	100K	100mm	No	No	No
	PS100-2	Dual	Con. Plas.	0.25W	100K	100mm	No	No	No
	PSxx-1	Single	Con. Plas.	N/A	100K	15 - 60mm	No	Yes	No
	PSxx-2	Dual	Con. Plas.	N/A	100K	16 - 60mm	No	Yes	No
	PSxxL	Single	Con. Plas.	N/A	100K	20 - 60mm	Yes	Yes	Yes
	PSxxM	Dual	Con. Plas.	N/A	100K	20 - 60mm	Yes	Yes	No

Our Applications

Electric Guitars



Most popular models include the P160, P230, P231 and P270 series

Keyboards



Most popular models include the P090S, P090L series, EN11, EN12 and EN16 panel encoders

Mixing Boards



Most popular models include the P090 and P09X series

Foot Pedals



Most popular models include the P160, P230, P231 and P270 series

Amplifiers



Most popular models include the P160, P260 and P270 series

To check inventory with our global distributor network, visit:
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To find out more about the BI Technologies brand, visit:
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