

# VOLTAGE DIVIDER STRING POT



MEAS | MEAS PT101  
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The PT101 series voltage divider IP50 classic string pot offers full stroke measurement up to 100 inches and has thousands of applications.



Sensors > Position Sensors > Potentiometer Sensors > Cable Actuated Position Sensors

The PT101 series voltage divider IP50 classic string pot is available in full stroke ranges up to 100-inches and provides a voltage feedback signal linearly proportional to the position of its traveling stainless steel measuring cable.



Cable Actuated Position Sensor Product Type: **Classic String Pot Series**

Output Signal: **Voltage Divider (Potentiometric)**

Repeatability: **.02 % of FS**

Cable Actuated Position Sensor Housing Material: **Aluminum**

IP Rating: **IP50**

The PT101 series voltage divider IP50 classic string pot has literally thousands of applications including **aircraft structural testing, hydraulic cylinder control, valve stem opening, and factory automation.**

Available in full stroke ranges up to 100-inches, the PT101 provides a voltage feedback signal linearly proportional to the position of its traveling stainless steel measuring cable. Additionally the PT101 installs in minutes and doesn't require perfect parallel alignment. Simply secure the base to a fixed surface and attach the measuring cable to your moving object.

### Benefits

- Absolute Linear Position
- Classic Stringpot Design
- Stroke Range Options: 0-2 to 0-100 inches
- Powder Painted & Anodized Aluminum Enclosure
- Industrial Automation & Testing Applications



Features

Product Type Features

Cable Actuated Position Sensor Product Type	Classic String Pot Series
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Signal Characteristics

Output Signal	Voltage Divider (Potentiometric)
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Body Features

Cable Actuated Position Sensor Housing Material	Aluminum
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Usage Conditions

Operating Temperature Range (°C)	-40 - 93
Operating Temperature Range (°F)	-40 - 200

Operation/Application

Resolution (mm)	Continuous Analog, Essentially Infinite
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Industry Standards

IP Rating	IP50
Hazardous Area Approval	No

Other

Full Stroke Ranges (mm)	1016, 1270, 1905, 1905 - 1905, 254, 254 - 254, 2540 - 2540, 381, 635 - 635
Full Stroke Ranges (in)	10, 10 - 10, 100 - 100, 15, 25 - 25, 40, 50, 75, 75 -75
Cable Actuated Position Sensor Accuracy (% of FS)	.1, .15
Repeatability (% of FS)	.02
Encoder Drive	No
Measuring Cable	.019 Inch Dia Nylon-Coated Stainless Steel, Nylon-Coated Stainless Steel

Reference Number

TE Internal Number	CAT-CAPS0014
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SEE PRODUCTS ON NEXT PAGE



Products (1 of 3)



PT101-0010-111-5110



PT101-0010-H11-3130: CTO-11500000-29



PT101-0015-111-3110



PT101-0015-H13-3130

TE Part #	04-0870-0002	20020428-00	04-0760-0047	10216307-00
Full Stroke Ranges	254 mm	254 - 254 mm	381 mm	381 mm
Cable Actuated Position Sensor Accuracy	.15 % of FS	.15 % of FS	.15 % of FS	.15 % of FS
Resolution	Continuous Analog mm	Essentially Infinite mm	Continuous Analog mm	Continuous Analog mm
Measuring Cable	Nylon-Coated Stainless Steel	.019 Inch Dia Nylon-Coated Stainless Steel	Nylon-Coated Stainless Steel	Nylon-Coated Stainless Steel
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant with Exemptions	Not Yet Reviewed for EU RoHS	EU RoHS Compliant with Exemptions	Not EU RoHS Compliant
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	EU ELV Compliant	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT101	MEAS PT101	MEAS PT101	MEAS PT101

**\*EU RoHS Directive 2011/65/EU**

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**\*\*EU ELV Directive 2000/53/EC**

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Products (2 of 3)



PT101-0025-113-4130: CTO-11500000-29



PT101-0040-111-4110



PT101-0050-H11-1130



PT101-0075-111-1110

TE Part #	20020755-00	04-0760-0106	04-0760-0863	04-0760-0013
Full Stroke Ranges	635 - 635 mm	1016 mm	1270 mm	1905 mm
Cable Actuated Position Sensor Accuracy	.15 % of FS	.1 % of FS	.1 % of FS	.1 % of FS
Resolution	Essentially Infinite mm	Continuous Analog mm	Continuous Analog mm	Continuous Analog mm
Measuring Cable	.019 Inch Dia Nylon-Coated Stainless Steel	Nylon-Coated Stainless Steel	Nylon-Coated Stainless Steel	Nylon-Coated Stainless Steel
EU RoHS Directive 2011/65 /EU	Not EU RoHS Compliant	EU RoHS Compliant with Exemptions	Not Yet Reviewed for EU RoHS	EU RoHS Compliant with Exemptions
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV	Not Yet Reviewed for EU ELV
Product Families	MEAS	MEAS	MEAS	MEAS
Series	MEAS PT101	MEAS PT101	MEAS PT101	MEAS PT101

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Products (3 of 3)



PT101-0075-H11-1110: CTO-11500000-29PT101-0100-H13-2140: CTO-11500000-29		
TE Part #	20019895-00	20017205-00
Full Stroke Ranges	1905 - 1905 mm	2540 - 2540 mm
Cable Actuated Position Sensor Accuracy	.1 % of FS	.1 % of FS
Resolution	Essentially Infinite mm	Essentially Infinite mm
Measuring Cable	.019 Inch Dia Nylon-Coated Stainless Steel	.019 Inch Dia Nylon-Coated Stainless Steel
EU RoHS Directive 2011/65/EU	EU RoHS Compliant with Exemptions	Not Yet Reviewed for EU RoHS
EU ELV Directive 2000/53/EC	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	MEAS	MEAS
Series	MEAS PT101	MEAS PT101

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Cable Actuated Position Sensors(10)

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