CP500 Current Transducers ♦ 4-20mA DC Output
VP500 Voltage Transducers ♦ 4-20mA DC Output

TRANSDATA®

Manufactured and Tested in the United States Since 1969

- **±0.2% of Rated Output Accuracy**
- **69, 240 and 480 Volt Input Ranges Available**
- **0.5, 1, 2.5 and 10 Amp Input Ranges Available**
- **Up to 300% Overload with Accuracy and Linearity**
- **5000 Volts Surge Withstand Capability**

The Number-One Source for Reliable, Utility-Grade Electrical Power Transducers

TransData is a leading manufacturer of utility-grade electrical power transducers for electric utility applications for over 50 years. TransData's transducers are used for measuring AC and DC power quantities and providing real-time information to SCADA and Energy Management Systems in a variety of Distribution, Substation, Generation and Industrial applications

TransData's electrical power transducers are precision engineered and manufactured to exacting standards utilizing superior grade materials and components that provide exceptional, long-term accuracy and reliability performance with rock solid stability.

TransData's transducers are direct pin-for-pin compatible with other brands and feature the utility specified all-steel enclosure with standardized mounting footprint.

INDIVIDUAL SPECIFICATIONS:

Process Control Series	OUTPUT	OUTPUT LOAD(1)	CURRENT	VOLTAGE
CURRENT & VOLTAGE TRANSDUCERS	1-5mA	0-6000 OHMS	10CP551	10VP551
	4-20mA	0-1500 OHMS	10CP552	10VP552
	10-50mA	0-600 OHMS	10CP553	10VP553
FULL SCALE INPUT			5 Amperes(2)	150 Volts(3)
INPUT RANGE WITH ACCURACY			0-10 Amperes	0-180 Volts
OVERLOAD			15 A.Cont., 50A.10 Sec./hr., 400A.1.0 Sec./hr.	200 Volts Cont.
BURDEN			<0.15VA	<0.2VA

GENERAL SPECIFICATIONS:

Accuracy @ 25°C ± 5°C	± 0.2% of R.O.
Temperature Range	-20°C to + 70°C
Temperature Influence (Max.)	± 0.005%/°C
Frequency Range	50-70HZ
A.C. Component (Peak)	<0.5%
Response Time to 99%	<400 MS
Operating Humidity	0-95%
Dielectric Test (1 Min.)	2000 V RMS
Surge Withstand Capability	5000 V Peak
Calibration Adjustment	± 10%
Zero (offset) Adjustment	± 5%
Power Supply	100-130V. 60Hz<7 VA @ R.O.
Weight	2¼ lbs. (1.02 Kg)

(1) 30 Volt Compliance (2) Other Full Scale Current Input Ranges Available (3) Other Full Scale Voltage Input Ranges Available

TRANSDATA, INC. **www.transdatainc.com**

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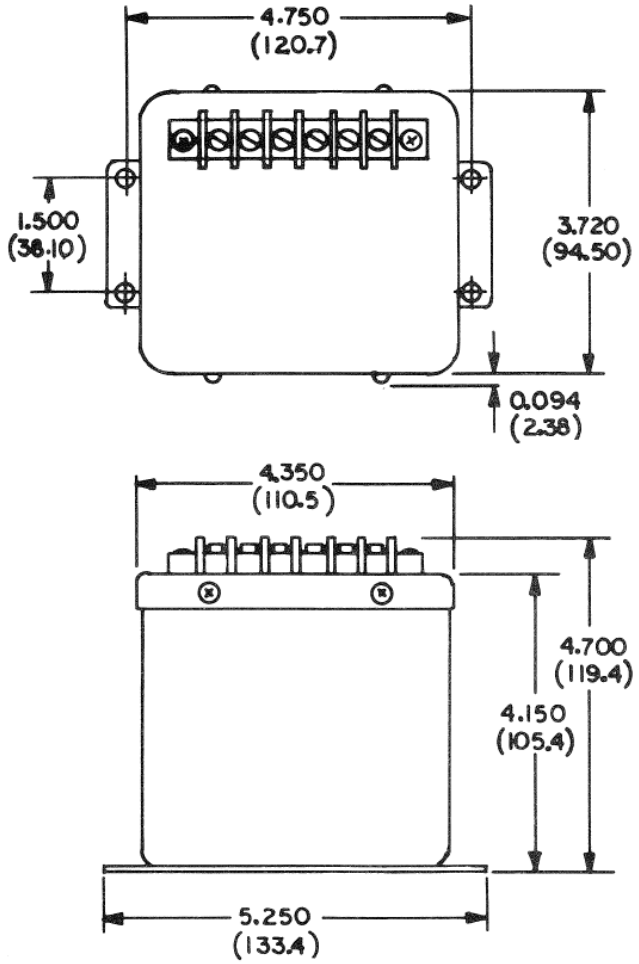
PROCESS CONTROL CURRENT AND VOLTAGE TRANSDUCERS

SURGE WITHSTAND CAPABILITY:

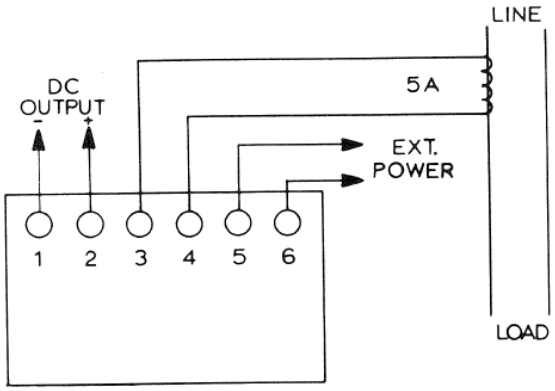
TransData, Inc. transducers are designed to withstand transient surges up to 5000 volts applied between input/output/case/power supply.

The test waveform consists of a series of damped oscillations at 50KHz to 200 KHz, the first peak being 5000 volts, decaying to 2000 volts in three cycles. These bursts are repeated at the rate of 120 per second for four seconds. Devices built with this protection will also pass the IEEE Standard No. 472 SWC Test.

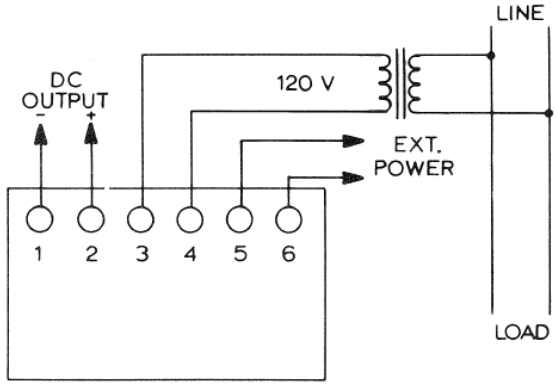


NOTE: DIMENSIONS ARE IN INCHES AND (MM)

Mounting holes (4) are 3/16″ in diameter. Can is steel with integral mounting flanges. Terminal screws are 8-32 binding head.



10CP500 SERIES



10VP500 SERIES

APPLICATION:
TRANS DATA, INC. PROCESS CONTROL

Current and Voltage Transducers convert current or voltage input signals from a power system into DC output signals proportional to the current or voltage on the system.

TRANSDATA, INC. **www.transdatainc.com**

2560 Tarpley Road • Carrollton, Texas 75006-2328 • Tel: 972-418-7717 • Fax: 972-418-7774 • Email: sales@transdatainc.com

WP552 Series Watt Transducers
4-20mA DC Output

TRANSDATA®

Manufactured and Tested in the United States Since 1969

- **Measures Uni-Directional Power Flow**
- **Accuracy to ±0.2% of Reading**
- **Exceptional Long-Term Stability and Reliability**
- **69, 240, 277 and 480 Volt Input Ranges Available**
- **1, 2.5 and 10 Amp Input Ranges Available**
- **5000 Volts Surge Withstand Capability**

The Number-One Source for Reliable, Utility-Grade Electrical Power Transducers

TransData is the leading manufacturer of utility-grade electrical power transducers for electric utility applications since 1969. TransData's transducers are used in a variety of Distribution, Substation, Generation and Industrial applications for accurately measuring various AC and DC power quantities and providing real-time information to SCADA and Energy Management Systems.

TransData's electrical power transducers are precision engineered to exacting standards utilizing superior grade materials and components that provide exceptional, long-term accuracy and reliability performance with rock solid stability.

TransData's transducers are direct pin-for-pin compatible with other brands and feature the utility specified all-steel enclosure with standardized mounting footprint.

Specifications	Self Powered	Externally Powered
Models 1 Element, Single Phase, 2 Wire, 2 Elements, 3 Phase, 3 Wire Delta Service 2½ Elements, 3 Phase, 4 Wire WYE Service 3 Elements, 3 Phase, 4 Wire WYE Service	10WP552S (500 Watts FS Cal) 20WP552S (1000 Watts FS Cal) 25WP552S (1500 Watts FS Cal) 30WP552S (1500 Watts FS Cal)	10WP552 (500 Watts FS Cal) 20WP552 (1000 Watts FS Cal) 25WP552 (1500 Watts FS Cal) 30WP552 (1500 Watts FS Cal)
Nominal Potential Input	120 Volts	120 Volts
Potential Range With Rated Accuracy	85-150 Volts	0-185 Volts
Potential Overload, Continuous	175 Volts	200 Volts
Potential Burden Per Element at 120 Volts	Less than 0.02VA (1)	Less than 0.02VA
Nominal Current Input	5 Amps	5 Amps
Current Range With Rated Accuracy	0-10 Amps	0-10 Amps
Current Overload, Continuous with Linearity	15 Amps	15 Amps
Current Overload, Maximum	250 Amps for 1 Sec/Hour	250 Amps for 1 Sec/Hour
Current Burden Per Element at 5 Amps	Less than 0.15VA	Less than 0.15VA
Full Scale Calibration Input	500 Watts per Element(2)	500 Watts per Element(2)
Output at Full Scale Input	4-20mA DC	4-20mA DC
Output Load	0-10,000 Ohms	0-10,000 Ohms
Output Compliance	11 Volts	11 Volts
Accuracy at 25°C, ±2°C	±0.2% of Reading, ±0.01% of RO	±0.2% of Reading, ±0.01% of RO
Temperature Range	-20°C to +70°C	-20°C to +70°C
Temperature Influence - Max	±0.005%/°C	±0.005%/°C
Response Time to 99%	Less Than 400 milli-seconds	Less Than 400 milli-seconds
Operating Humidity	0-99% non-condensing	0-99% non-condensing
Frequency Range	50 to 70 Hz (3)	50 to 70 Hz (3)
Power Factor Range	Any	Any
Calibration Adjustment	±10% (4)	±10% (4)
Zero Adjustment	None Required	None Required
Stability Maximum (per year)	±0.1% non-accumulative	±0.1% non-accumulative
Surge Withstand Capability IEEE No. 472	5000 Volts	5000 Volts
AC Component (Output Ripple)	Less than 0.5% of RO	Less than 0.5% of RO
Power Supply	Internal, Phase A	120 VAC
Dielectric Test (1 Min)	2000 Volts RMS	2000 Volts RMS

(1) Burden on Terminals 3 & 4 is <2.5VA (2) Other Full Scale Input Ranges Available (3) Available in 50Hz Models (4) Other Calibration Adjustments Available

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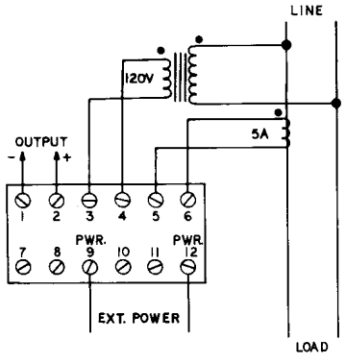
PROCESS CONTROL WATT TRANSDUCERS



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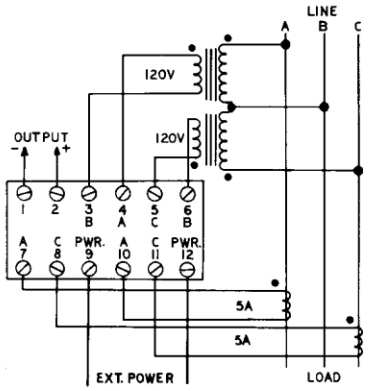

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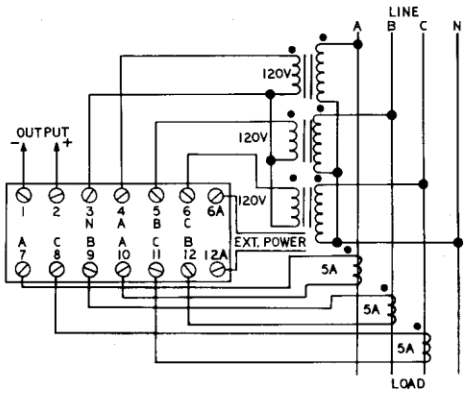

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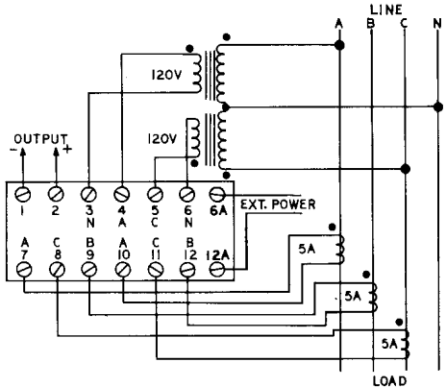
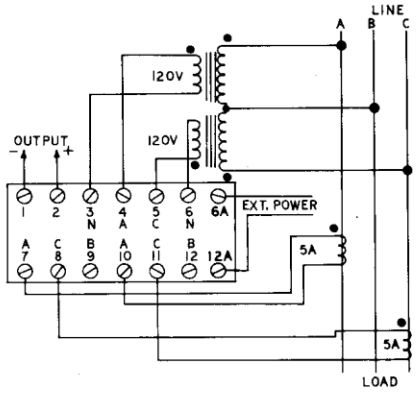
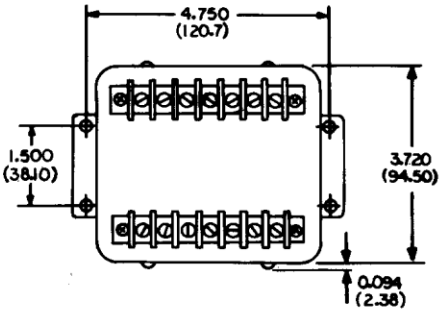
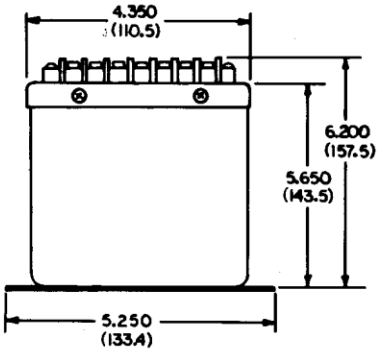


2½ ELEMENT



2½ ELEMENT CONNECTED AS 2 ELEMENT





Dimensions are in inches and (mm). Mounting holes (4) are 3/16″ in diameter. Can is steel with integral mounting flanges. Terminal screws are 8-32 binding head.

APPLICATION:

TransData, Inc. Watt transducers convert current and voltage input signals from a power system into DC output signals proportional to the true power of the system.

SURGE WITHSTAND CAPABILITY:

TransData, Inc. transducers are designed to withstand transient surges up to 5000 volts applied between input/output/case/power supply.

The test waveform consists of a series of damped oscillations at 50KHz to 200 KHz, the first peak being 5000 volts, decaying to 2000 volts in three cycles. These bursts are repeated at the rate of 120 per second for four seconds. Devices built with this protection will also pass the IEEE Standard No. 472 SWC Test.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

Grounding considerations may dictate connecting the primary opposite from the way shown. This is permissible if the secondary is also reversed, maintaining the same relative polarity.

TRANSDATA, INC. **www.transdatainc.com**

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RP552 Series VAR Transducers
4-20mA DC Output

TRANSDATA®

Manufactured and Tested in the United States Since 1969

- **Measures Uni-Directional Power Flow**
- **Accuracy to ±0.2% of Reading**
- **Exceptional Long-Term Stability and Reliability**
- **69, 240, 277 and 480 Volt Input Ranges Available**
- **1, 2.5 and 10 Amp Input Ranges Available**
- **5000 Volts Surge Withstand Capability**

The Number-One Source for Reliable, Utility-Grade Electrical Power Transducers

TransData is the leading manufacturer of utility-grade electrical power transducers for electric utility applications since 1969. TransData's transducers are used in a variety of Distribution, Substation, Generation and Industrial applications for accurately measuring various AC and DC power quantities and providing real-time information to SCADA and Energy Management Systems.

TransData's electrical power transducers are precision engineered to exacting standards utilizing superior grade materials and components that provide exceptional, long-term accuracy and reliability performance with rock solid stability.

TransData's transducers are direct pin-for-pin compatible with other brands and feature the utility specified all-steel enclosure with standardized mounting footprint.

Specifications	Self Powered	Externally Powered
Models 1 Element, Single Phase, 2 Wire, 2 Elements, 3 Phase, 3 Wire Delta Service 2½ Elements, 3 Phase, 4 Wire WYE Service 3 Elements, 3 Phase, 4 Wire WYE Service	10RP552S (500 VARS FS Cal) 20RP552S (1000 VARS FS Cal) 25RP552S (1500 VARS FS Cal) 30RP552S (1500 VARS FS Cal)	10RP552 (500 VARS FS Cal) 20RP552 (1000 VARS FS Cal) 25RP552 (1500 VARS FS Cal) 30RP552 (1500 VARS FS Cal)
Nominal Potential Input	120 Volts	120 Volts
Potential Range With Rated Accuracy	85-150 Volts	0-185 Volts
Potential Overload, Continuous	175 Volts	200 Volts
Potential Burden Per Element at 120 Volts	Less than 0.02VA (1)	Less than 0.02VA
Nominal Current Input	5 Amps	5 Amps
Current Range With Rated Accuracy	0-10 Amps	0-10 Amps
Current Overload, Continuous with Linearity	15 Amps	15 Amps
Current Overload, Maximum	250 Amps for 1 Sec/Hour	250 Amps for 1 Sec/Hour
Current Burden Per Element at 5 Amps	Less than 0.15VA	Less than 0.15VA
Full Scale Calibration Input	500 VARs per Element(2)	500 VARs per Element(2)
Output at Full Scale Input	4-20mA DC	4-20mA DC
Output Load	0-10,000 Ohms	0-10,000 Ohms
Output Compliance	11 Volts	11 Volts
Accuracy at 25°C, ±2°C	±0.2% of Reading, ±0.03% of RO	±0.2% of Reading, ±0.03% of RO
Temperature Range	-20°C to +70°C	-20°C to +70°C
Temperature Influence - Max	±0.009%/°C	±0.009%/°C
Response Time to 99%	Less Than 400 milli-seconds	Less Than 400 milli-seconds
Operating Humidity	0-99% non-condensing	0-99% non-condensing
Frequency Range	50 to 70 Hz (3)	50 to 70 Hz (3)
Power Factor Range	Any	Any
Calibration Adjustment	±10% (4)	±10% (4)
Zero Adjustment	None Required	None Required
Stability Maximum (per year)	±0.1% non-accumulative	±0.1% non-accumulative
Surge Withstand Capability IEEE No. 472	5000 Volts	5000 Volts
AC Component (Output Ripple)	Less than 0.5% of RO	Less than 0.5% of RO
Power Supply	Internal, Phase A	120 VAC
Dielectric Test (1 Min)	2000 Volts RMS	2000 Volts RMS

(1) Burden on Terminals 3 & 4 is <2.5VA (2) Other Full Scale Input Ranges Available (3) Available in 50Hz Models (4) Other Calibration Adjustments Available

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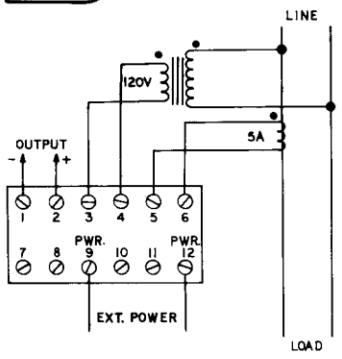
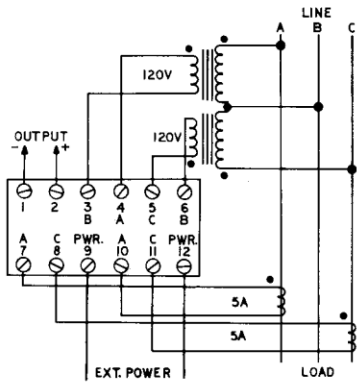
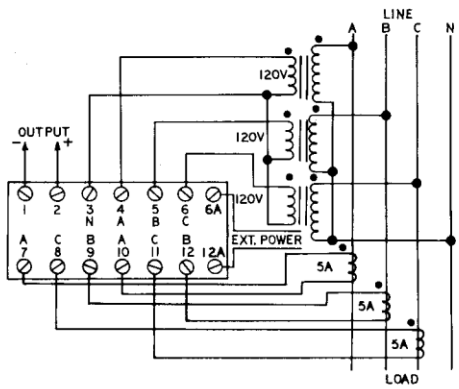
PROCESS CONTROL VAR TRANSDUCERS



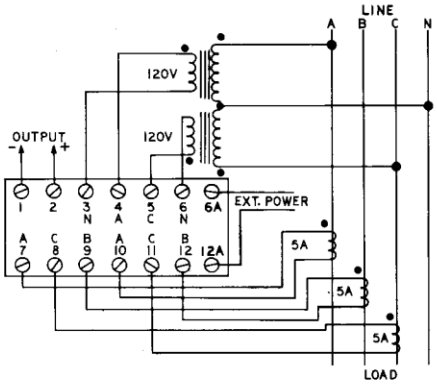
1 ELEMENT



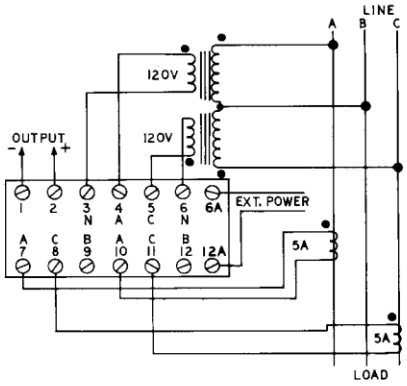
2 ELEMENT



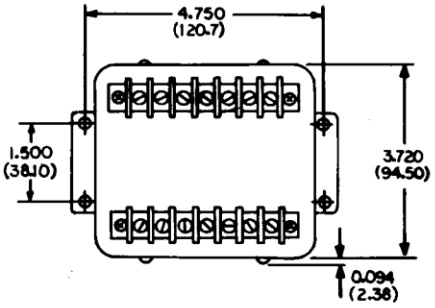
3 ELEMENT

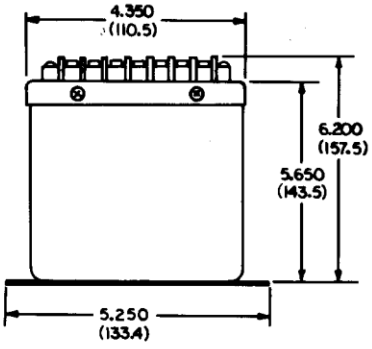


2½ ELEMENT



2½ ELEMENT CONNECTED AS 2 ELEMENT





Dimensions are in inches and (mm). Mounting holes (4) are 3/16″ in diameter. Can is steel with integral mounting flanges. Terminal screws are 8-32 binding head.

APPLICATION:

TransData, Inc. Var transducers convert current and voltage input signals from a power system into DC output signals proportional to the reactive power of the system.

SURGE WITHSTAND CAPABILITY:

TransData, Inc. transducers are designed to withstand transient surges up to 5000 volts applied between input/output/case/power supply.

The test waveform consists of a series of damped oscillations at 50KHz to 200 KHz, the first peak being 5000 volts, decaying to 2000 volts in three cycles. These bursts are repeated at the rate of 120 per second for four seconds. Devices built with this protection will also pass the IEEE Standard No. 472 SWC Test.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

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WRP552 Series Watt/VAR Transducers
4-20mA DC Outputs

TRANSDATA®

Manufactured and Tested in the United States Since 1969

- **Measures Uni-Directional Power Flow**
- **Accuracy to ±0.2% of Reading**
- **Exceptional Long-Term Stability and Reliability**
- **69, 240, 277 and 480 Volt Input Ranges Available**
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Models 1 Element, Single Phase, 2 Wire, 2 Elements, 3 Phase, 3 Wire Delta Service 2½ Elements, 3 Phase, 4 Wire WYE Service 3 Elements, 3 Phase, 4 Wire WYE Service	10WRP552S (500 W/V FS Cal) 20WRP552S (1000 W/V FS Cal) 25WRP552S (1500 W/V FS Cal) 30WRP552S (1500 W/V FS Cal)	10WRP552 (500 W/V FS Cal) 20WRP552 (1000 W/V FS Cal) 25WRP552 (1500 W/V FS Cal) 30WRP552 (1500 W/V FS Cal)
Nominal Potential Input	120 Volts	120 Volts
Potential Range With Rated Accuracy	85-150 Volts	0-185 Volts
Potential Overload, Continuous	175 Volts	200 Volts
Potential Burden Per Element at 120 Volts	Less than 0.02VA (1)	Less than 0.02VA
Nominal Current Input	5 Amps	5 Amps
Current Range With Rated Accuracy	0-10 Amps	0-10 Amps
Current Overload, Continuous with Linearity	15 Amps	15 Amps
Current Overload, Maximum	250 Amps for 1 Sec/Hour	250 Amps for 1 Sec/Hour
Current Burden Per Element at 5 Amps	Less than 0.15VA	Less than 0.15VA
Full Scale Calibration Input	500 Watts/VARs per Element(2)	500 Watts/VARs per Element(2)
Output at Full Scale Input	4-20mA DC	4-20mA DC
Output Load	0-10,000 Ohms	0-10,000 Ohms
Output Compliance	11 Volts	11 Volts
Accuracy at 25°C, ±2°C - Watts - VARs	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO
Temperature Range	-20°C to +70°C	-20°C to +70°C
Temperature Influence - Watts - VARs	±0.005%/°C ±0.009%/°C	±0.005%/°C ±0.009%/°C
Response Time to 99%	Less Than 400 milli-seconds	Less Than 400 milli-seconds
Operating Humidity	0-99% non-condensing	0-99% non-condensing
Frequency Range	50 to 70 Hz (3)	50 to 70 Hz (3)
Power Factor Range	Any	Any
Calibration Adjustment	±10% (4)	±10% (4)
Zero Adjustment	None Required	None Required
Stability Maximum (per year)	±0.1% non-accumulative	±0.1% non-accumulative
Surge Withstand Capability IEEE No. 472	5000 Volts	5000 Volts
AC Component (Output Ripple)	Less than 0.5% of RO	Less than 0.5% of RO
Power Supply	Internal, Phase A	120 VAC
Dielectric Test (1 Min)	2000 Volts RMS	2000 Volts RMS

(1) Burden on Terminals 3 & 4 is <2.5VA (2) Other Full Scale Input Ranges Available (3) Available in 50Hz Models (4) Other Calibration Adjustments Available

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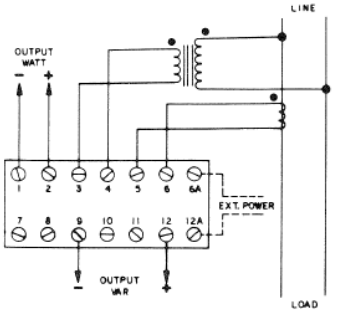
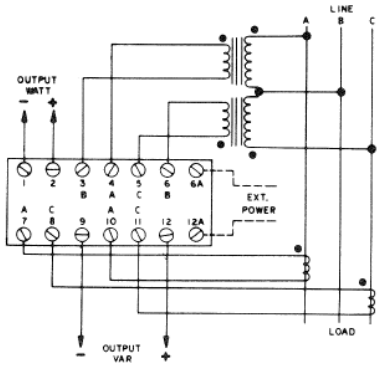


1 ELEMENT



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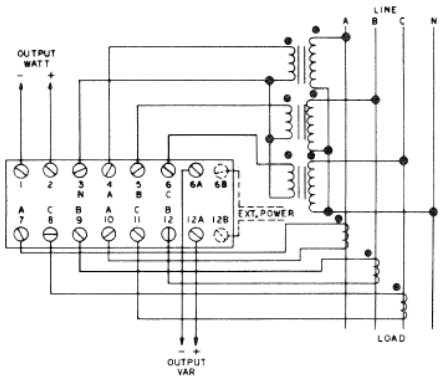

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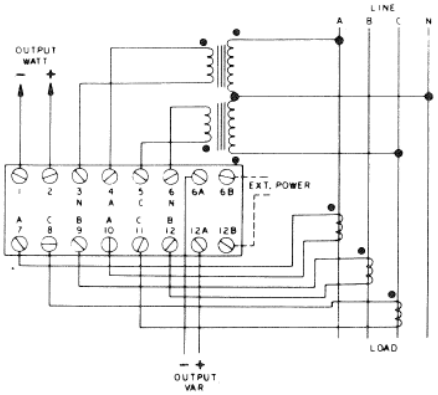
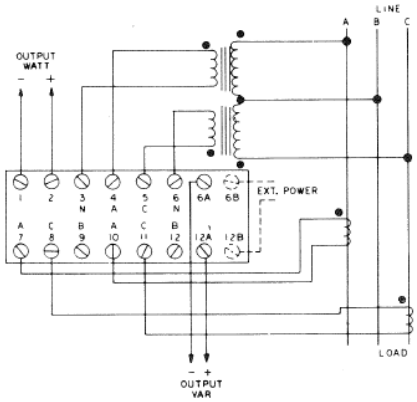


2½ ELEMENT



2½ ELEMENT CONNECTED AS 2 ELEMENT

APPLICATION:

TransData, Inc. Watt/Var transducers convert current and voltage input signals from a power system into DC output signals proportional to the true power and reactive power of the system.

SURGE WITHSTAND CAPABILITY:

TransData, Inc., transducers are designed to withstand transient surges up to 5000 volts applied between input/output/ground/ power supply.

The test waveform consists of a series of damped oscillations at 50KHz to 200KHz, the first peak being 5000 volts, decaying to 2000 volts in three cycles. These bursts are repeated at the rate of 120 per second for four seconds. Devices built with this protection will also pass the IEEE Standard No. 472 SWC Test.

Internal power connected to terminals 3 and 4 on self powered models. Externally powered models connected as shown on wiring diagrams.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

Grounding considerations may dictate connecting the primary opposite from the way shown. This is permissible if the secondary is also reversed, maintaining the same relative polarity.

TRANSDATA. INC. **www.transdatainc.com**

2560 Tarpley Road • Carrollton, Texas 75006-2328 • Tel: 972-418-7717 • Fax: 972-418-7774 • Email: sales@transdatainc.com

WRP552-12 Series Watt/VAR Transducers
4-12-20mA DC Bi-Polar Outputs (12mA Zero)

TRANSDATA®

Manufactured and Tested in the United States Since 1969

- **Measures Bidirectional Power Flow**
- **Accuracy to ±0.2% of Reading**
- **Exceptional Long-Term Stability and Reliability**
- **69, 240, 277 and 480 Volt Input Ranges Available**
- **1, 2.5 and 10 Amp Input Ranges Available**
- **5000 Volts Surge Withstand Capability**

The Number-One Source for Reliable, Utility-Grade Electrical Power Transducers

TransData is the leading manufacturer of utility-grade electrical power transducers for electric utility applications since 1969. TransData's transducers are used in a variety of Distribution, Substation, Generation and Industrial applications for accurately measuring various AC and DC power quantities and providing real-time information to SCADA and Energy Management Systems.

TransData's electrical power transducers are precision engineered to exacting standards utilizing superior grade materials and components that provide exceptional, long-term accuracy and reliability performance with rock solid stability.

TransData's transducers are direct pin-for-pin compatible with other brands and feature the utility specified all-steel enclosure with standardized mounting footprint.

Specifications	Self Powered	Externally Powered
Models 1 Element, Single Phase, 2 Wire, 2 Elements, 3 Phase, 3 Wire Delta Service 2½ Elements, 3 Phase, 4 Wire WYE Service 3 Elements, 3 Phase, 4 Wire WYE Service	10WRP552S-12 (500 W/V FS Cal) 20WRP552S-12 (1000 W/V FS Cal) 25WRP552S-12 (1500 W/V FS Cal) 30WRP552S-12 (1500 W/V FS Cal)	10WRP552-12 (500 W/V FS Cal) 20WRP552-12 (1000 W/V FS Cal) 25WRP552-12 (1500 W/V FS Cal) 30WRP552-12 (1500 W/V FS Cal)
Nominal Potential Input	120 Volts	120 Volts
Potential Range With Rated Accuracy	85-150 Volts	0-185 Volts
Potential Overload, Continuous	175 Volts	200 Volts
Potential Burden Per Element at 120 Volts	Less than 0.02VA (1)	Less than 0.02VA
Nominal Current Input	5 Amps	5 Amps
Current Range With Rated Accuracy	0-10 Amps	0-10 Amps
Current Overload, Continuous with Linearity	15 Amps	15 Amps
Current Overload, Maximum	250 Amps for 1 Sec/Hour	250 Amps for 1 Sec/Hour
Current Burden Per Element at 5 Amps	Less than 0.15VA	Less than 0.15VA
Full Scale Calibration Input	500 Watts/VARs per Element(2)	500 Watts/VARs per Element(2)
Output at Full Scale Input	4-12-20mA DC	4-12-20mA DC
Output Load	0-10,000 Ohms	0-10,000 Ohms
Output Compliance	11 Volts	11 Volts
Accuracy at 25°C, ±2°C - Watts - VARs	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO
Temperature Range	-20°C to +70°C	-20°C to +70°C
Temperature Influence - Watts - VARs	±0.005%/°C ±0.009%/°C	±0.005%/°C ±0.009%/°C
Response Time to 99%	Less Than 400 milli-seconds	Less Than 400 milli-seconds
Operating Humidity	0-99% non-condensing	0-99% non-condensing
Frequency Range	50 to 70 Hz (3)	50 to 70 Hz (3)
Power Factor Range	Any	Any
Calibration Adjustment	±10% (4)	±10% (4)
Zero Adjustment	None Required	None Required
Stability Maximum (per year)	±0.1% non-accumulative	±0.1% non-accumulative
Surge Withstand Capability IEEE No. 472	5000 Volts	5000 Volts
AC Component (Output Ripple)	Less than 0.5% of RO	Less than 0.5% of RO
Power Supply	Internal, Phase A	120 VAC
Dielectric Test (1 Min)	2000 Volts RMS	2000 Volts RMS

(1) Burden on Terminals 3 & 4 is <2.5VA (2) Other Full Scale Input Ranges Available (3) Available in 50Hz Models (4) Other Calibration Adjustments Available

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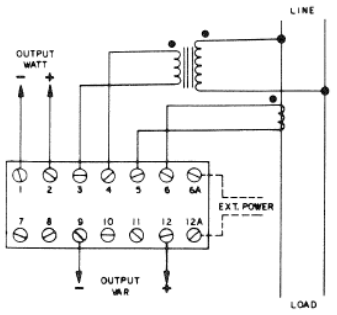
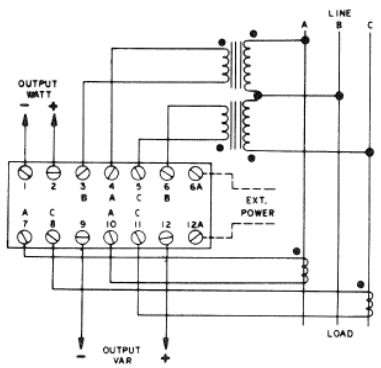
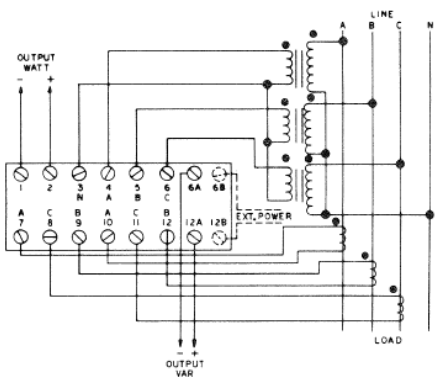
WRP552-12 Series Watt/VAR Transducers



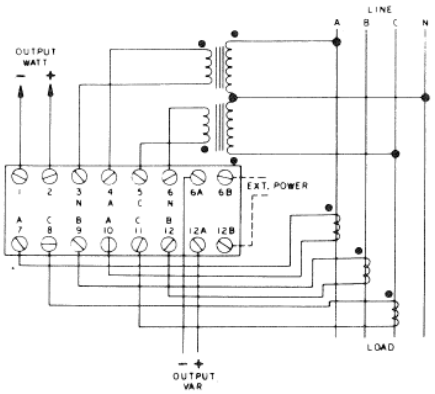
1 ELEMENT



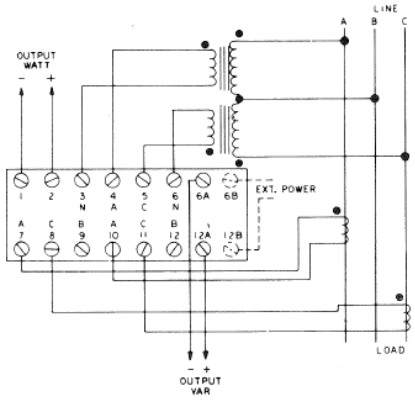
2 ELEMENT



3 ELEMENT



2½ ELEMENT



2½ ELEMENT CONNECTED AS 2 ELEMENT

APPLICATION:

TransData, Inc. Watt/Var transducers convert current and voltage input signals from a power system into DC output signals proportional to the true power and reactive power of the system.

SURGE WITHSTAND CAPABILITY:

TransData, Inc., transducers are designed to withstand transient surges up to 5000 volts applied between input/output/ground/ power supply.

The test waveform consists of a series of damped oscillations at 50KHz to 200KHz, the first peak being 5000 volts, decaying to 2000 volts in three cycles. These bursts are repeated at the rate of 120 per second for four seconds. Devices built with this protection will also pass the IEEE Standard No. 472 SWC Test.

Internal power connected to terminals 3 and 4 on self powered models. Externally powered models connected as shown on wiring diagrams.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

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WRP552-24 Series Watt/VAR Transducers
4-20mA Watt Output, 4-12-20mA VAR Output

TRANSDATA®

MADE IN USA

Manufactured and Tested in the United States Since 1969

- **Unidirectional Watts, Bi-directional VARS**
- **Accuracy to ±0.2% of Reading**
- **Exceptional Long-Term Stability and Reliability**
- **69, 240, 277 and 480 Volt Input Ranges Available**
- **1, 2.5 and 10 Amp Input Ranges Available**
- **5000 Volts Surge Withstand Capability**

The Number-One Source for Reliable, Utility-Grade Electrical Power Transducers

TransData is the leading manufacturer of utility-grade electrical power transducers for electric utility applications since 1969. TransData's transducers are used in a variety of Distribution, Substation, Generation and Industrial applications for accurately measuring various AC and DC power quantities and providing real-time information to SCADA and Energy Management Systems.

TransData's electrical power transducers are precision engineered to exacting standards utilizing superior grade materials and components that provide exceptional, long-term accuracy and reliability performance with rock solid stability.

TransData's transducers are direct pin-for-pin compatible with other brands and feature the utility specified all-steel enclosure with standardized mounting footprint.

Specifications	**Self Powered**	**Externally Powered**
Models 1 Element, Single Phase, 2 Wire, 2 Elements, 3 Phase, 3 Wire Delta Service 2½ Elements, 3 Phase, 4 Wire WYE Service 3 Elements, 3 Phase, 4 Wire WYE Service	10WRP552S-24 (500 W/V FS Cal) 20WRP552S-24 (1000 W/V FS Cal) 25WRP552S-24 (1500 W/V FS Cal) 30WRP552S-24 (1500 W/V FS Cal)	10WRP552-24 (500 W/V FS Cal) 20WRP552-24 (1000 W/V FS Cal) 25WRP552-24 (1500 W/V FS Cal) 30WRP552-24 (1500 W/V FS Cal)
Nominal Potential Input	120 Volts	120 Volts
Potential Range With Rated Accuracy	85-150 Volts	0-185 Volts
Potential Overload, Continuous	175 Volts	200 Volts
Potential Burden Per Element at 120 Volts	Less than 0.02VA (1)	Less than 0.02VA
Nominal Current Input	5 Amps	5 Amps
Current Range With Rated Accuracy	0-10 Amps	0-10 Amps
Current Overload, Continuous with Linearity	15 Amps	15 Amps
Current Overload, Maximum	250 Amps for 1 Sec/Hour	250 Amps for 1 Sec/Hour
Current Burden Per Element at 5 Amps	Less than 0.15VA	Less than 0.15VA
Full Scale Calibration Input	500 Watts/VARs per Element(2)	500 Watts/VARs per Element(2)
Output at Full Scale Input	4-12-20mA DC	4-12-20mA DC
Output Load	0-10,000 Ohms	0-10,000 Ohms
Output Compliance	11 Volts	11 Volts
Accuracy at 25°C, ±2°C - Watts - VARs	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO	±0.2% of Reading, ±0.01% of RO ±0.2% of Reading, ±0.03% of RO
Temperature Range	-20°C to +70°C	-20°C to +70°C
Temperature Influence - Watts - VARs	±0.005%/°C ±0.009%/°C	±0.005%/°C ±0.009%/°C
Response Time to 99%	Less Than 400 milli-seconds	Less Than 400 milli-seconds
Operating Humidity	0-99% non-condensing	0-99% non-condensing
Frequency Range	50 to 70 Hz (3)	50 to 70 Hz (3)
Power Factor Range	Any	Any
Calibration Adjustment	±10% (4)	±10% (4)
Zero Adjustment	None Required	None Required
Stability Maximum (per year)	±0.1% non-accumulative	±0.1% non-accumulative
Surge Withstand Capability IEEE No. 472	5000 Volts	5000 Volts
AC Component (Output Ripple)	Less than 0.5% of RO	Less than 0.5% of RO
Power Supply	Internal, Phase A	120 VAC
Dielectric Test (1 Min)	2000 Volts RMS	2000 Volts RMS

(1) Burden on Terminals 3 & 4 is <2.5VA (2) Other Full Scale Input Ranges Available (3) Available in 50Hz Models (4) Other Calibration Adjustments Available

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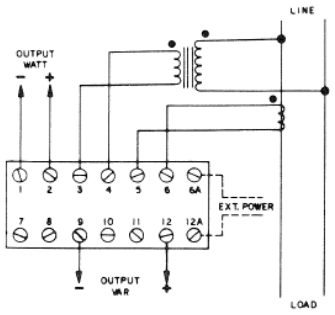
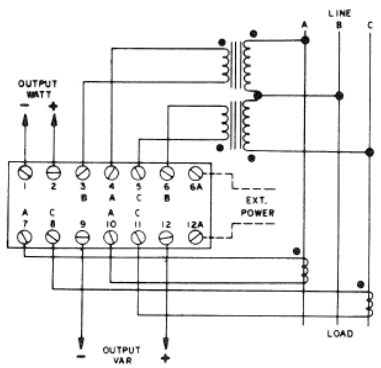


1 ELEMENT



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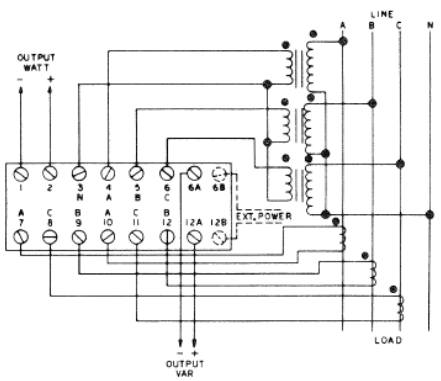
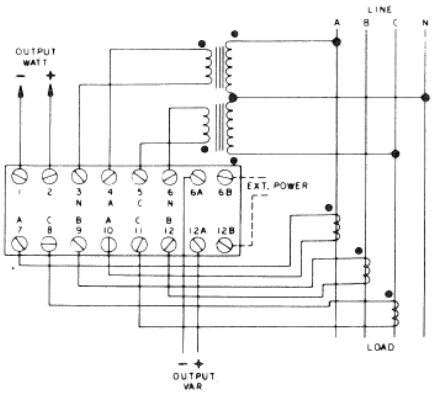
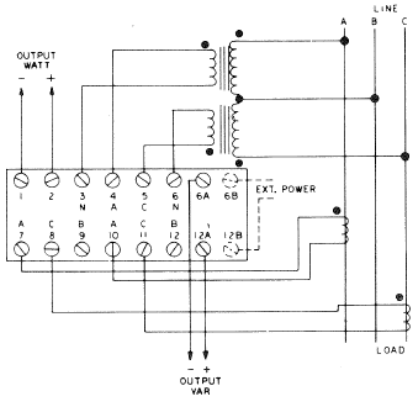


3 ELEMENT



2½ ELEMENT



2½ ELEMENT CONNECTED AS 2 ELEMENT

APPLICATION:

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SURGE WITHSTAND CAPABILITY:

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