





Analog absolute positioning

Utilizing a precision potentiometer, the UniMeasure PA series position transducer provides basic absolute positioning with an analog output. With a steady state input voltage and with the potentiometer connected as a voltage divider, the ratiometric output voltage is directly proportional to wire rope extension. The unit will function with any input voltage up to 25 volts maximum. To obtain best output linearity, the input voltage should be well regulated.

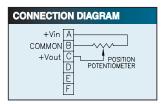


SPECIFICATIONS

GENERAL	
Linearity	
2", 3", 4" & 5" Ranges	±0.25% Full Scale
10", 15", 20" & 25" Ranges	±0.15% Full Scale
All other ranges	±0.10% Full Scale
Repeatability ^[1]	±0.015% Full Scale
Resolution	
Construction	Aluminum Cover & Baseplate
Sensing Device	Precision Potentiometer
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	See Supplemental Data[2], Table 1
Wire Rope Inbound Acceleration.	See Supplemental Data[2], Table 7
Weight	
Up to 50"	
60" & 80"	
Dimensional Information	See Supplemental Data [2], Fig. 1
Options and Accessories	See Supplemental Data [2]
ELECTRICAL	
Input Impedance	
Output Impedance	
Excitation Voltage	30 Volts Max. AC or DC
Output Voltage Change Over	
Full Range of Transducer	92% to 98% of Excitation Voltage

ENVIRONMENTAL

Thermal Coefficient of Sensing Element	±100 PPM/°C max.
Operating temperature	-40°C to +95°C
Operating humidity	95% R.H. max. non-condensing
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max.
Ingress Protection	NEMA 1, IP-40



& 2

- FOOTNOTES TO SPECIFICATIONS

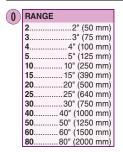
 1. Moving to the same position from the same direction.
- 2. Supplemental Data section locate at end of Standard Series pages.

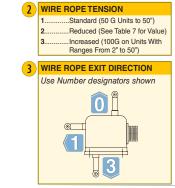
MODEL NUMBER CONFIGURATION



WIRE ROPE

BASIC CONFIGURATION (FOR ALL RANGES) PA-50-S10-N1S-10C

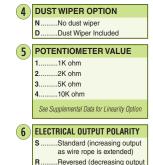




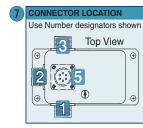
Stainless Steel

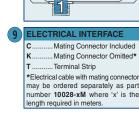
..Ø.016 (0,4 mm) Stainless Steel

.Ø.018 (0,45 mm) Nylon Jacketed



as wire rope is extended)







Bridge Circuit Voltage Output



Analog absolute positioning

The UniMeasure PB Series transducer includes a sensing potentiometer in a bridge circuit with adjustable zero and span controls. The completely passive circuit gives a maximum output voltage at maximum span setting of approximately 18% of the input voltage. The span adjustment allows for easy interface to a bridge amplifier. With zero position adjustable to anywhere within the total range of the transducer, voltage output is positive when extending the cable from the selected zero position and is negative when retracting from zero.



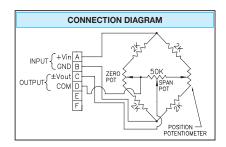
SPECIFICATIONS

CENEDAL

GENERAL	
Linearity	
2", 3", 4" & 5" Ranges	. ±0.25% Full Scale
10", 15", 20" & 25" Ranges	. ±0.15% Full Scale
All other ranges	. ±0.10% Full Scale
Repeatability ^[1]	. ±0.015% Full Scale
Resolution	. Essentially Infinite
Construction	. Aluminum Cover & Baseplate
Sensing Device	. Precision Potentiometer
Connector	. MS3102A-14S-6P
Wire Rope	. Ø.016 Stainless Steel
Wire Rope Tension	. See Supplemental Data ^[2] , Table 7
Wire Rope Inbound Acceleration	. See Supplemental Data[2], Table 7
Weight	
Up to 50"	. 1.0 lb. (0.45 Kg)
60" & 80"	. 1.4 lb. (0.63 Kg)
Dimensional Information	. See Supplemental Data [2], Fig. 1 & 2
Options and Accessories	. See Supplemental Data [2]
ELECTRICAL	
Input Impedance	. 1.25KΩ
Output Impedance	. 1.25KΩ at max span setting
	14.4KΩ @ 51% max. span setting
Excitation Voltage	. 30 Volts Max. AC or DC
Output Voltage	. User adjustable to a maximum of
	18% of Input Voltage

ENVIRONMENTAL

Thermal Coefficient of Sensing Element	±100 PPM/°C max.
Operating temperature	40°C to +95°C
Operating humidity	95% R.H. max. non-condensing
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max.
Ingress Protection	IP-40 (NEMA 1)



FOOTNOTES TO SPECIFICATIONS

Moving to the same position from the same direction.
 Supplemental Data section locate at end of Standard Series pages.

MODEL NUMBER CONFIGURATION













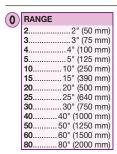


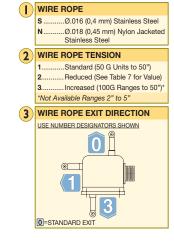


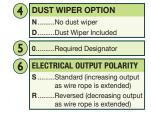


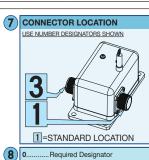


PB-50-S10-N0S-10C











*Electrical cable with mating connector may be ordered separately as part number 10028-xM where 'x' is the length required



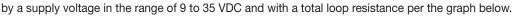
P420





Two wire 4-20 mA Transmitter

The UniMeasure P420 position transducer provides a 4 to 20 mA output signal using a potentiometric sensor. Since the transmitter is loop powered, an assembled system consists of a power supply, current monitor, and transmitter all connected in series. The P420 is particularly insensitive to electrically noisy environments. Zero and span adjustments allow setting the 4 mA position within the first 30% of total travel and setting the 20 mA position within 80% to 100% of total travel. The devices may be powered



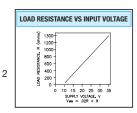


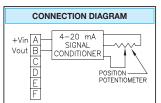
SPECIFICATIONS

GENERAL	
Linearity	
2", 3", 4" & 5" Ranges	±0.30% Full Scale
10", 15", 20" & 25" Ranges	±0.20% Full Scale
All other ranges	±0.15% Full Scale
Repeatability ^[1]	±0.015% Full Scale
Resolution	Essentially Infinite
Construction	Aluminum Cover & Baseplate
Sensing Device	Precision Potentiometer
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	See Supplemental Data[3], Table 7
Wire Rope Inbound Acceleration	See Supplemental Data[3], Table 7
Weight	
Up to 50"	
60" & 80"	1.4 lb. (0.63 Kg)
Dimensional Information	See Supplemental Data [3], Fig. 1 &
Options and Accessories	See Supplemental Data [3]
ENVIRONMENTAL	
Thermal Coefficient of Sensing Elemen	
Operating temperature	
Operating humidity	
Vibration	
Shock	

ELECTRICAL

Output	4 to 20 mA
Load Resistance (Total Loop)	See Graph Below
Excitation Voltage	9 to 35 VDC ^[2]
Min. Supply Voltage	(.02 x Load Res.) + 9 VDC
Insulation resistance	100 Megohms min. at 100 VDC
Adjustment Range	· ·
Zero	0 to 30% of Range
Span	80% to 100% of Range
Protection	Reversed Polarity





FOOTNOTES TO SPECIFICATIONS

- Moving to the same position from the same direction.
 Voltage required at transducer.
 Supplemental Data section located at end of Standard Series pages.

MODEL NUMBER CONFIGURATION

Ingress Protection IP-40 (NFMA 1)



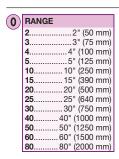


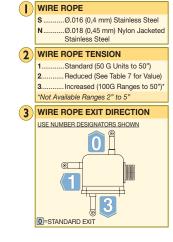


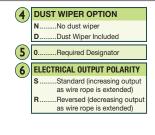


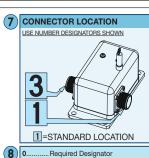


Basic Configuration (FOR ALL RANGES) P420-50-S10-N0S-10C











*Electrical cable with mating connector may be ordered separately as part number 10028-xM where 'x' is the length required



Position Transduceur Analog Output



The UniMeasure P510 Series transducer offers a voltage output with wide adjustability to give a 0 to 5, 0 to 10, ±5 or ±10 VDC output. The device may be powered with an unregulated voltage in the range of 4.9 to 30 VDC. Zero and span adjustment potentiometers are readily accessible. With the zero position set anywhere within the first 30% of total travel, the span may be adjusted to give a full 0 to 5 or 0 to 10 VDC output with the span set anywhere within the last 20% of travel. Alternatively, the zero position may be set anywhere between 10% and 90% of full travel to give an output of ±5 or ±10 VDC with the span set between 50% to 100% of the longest travel from the zero position.



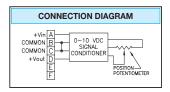
SPECIFICATIONS

OFNEDAL

GENERAL	
Linearity	
2", 3", 4" & 5" Ranges	±0.30% Full Scale
10", 15", 20" & 25" Ranges	±0.20% Full Scale
All other ranges	±0.15% Full Scale
Repeatability ^[1]	±0.015% Full Scale
Resolution	Essentially Infinite
Construction	Aluminum Cover & Baseplate
Sensing Device	Precision Potentiometer
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	See Supplemental Data ^[3] , Table 7
Wire Rope Inbound Acceleration	See Supplemental Data ^[3] , Table 7
Weight	
Up to 50"	1.0 lb. (0.45 Kg)
60" & 80"	
Dimensional Information	See Supplemental Data [3], Fig. 1 & 2
Options and Accessories	See Supplemental Data [3]
ENVIRONMENTAL	
Thermal Coefficient of Sensing Element	±100 PPM/°C max.
Operating temperature	40°C to +95°C
Operating humidity	95% R.H. max. non-condensing
Vibration	15 G's 0.1 ms max.
Shock	
Ingress Protection	IP-40 (NEMA 1)

ELECTRICAL

LLOTTIOAL	
Output	0 to 5 or 10 VDC, ± 5 or ± 10 VDC
Excitation Voltage	4.9 to 30 VDC
Excitation Current	25 mA max.
Output Impedance	10Ω max.
Output Load	5KΩ min.
ADJUSTMENT RANGE-0 TO 5 (OR 0 TO 10 VDC
Zero	0 to 30% of Range
Span	80% to 100% of Range
ADJUSTMENT RANGE-±5 OR ±	10 VDC
Zero	10% to 90% of Range
Span	50% to 100% of Longest Possible
Travel from Zero Position	
Protection	Reversed Polarity
Temperature Stability	0.02%/°C of Span



FOOTNOTES TO SPECIFICATIONS

1. Moving to the same position from the same direction.

2. Span may be adjusted from 5 VDC to 10 VDC within percentage of range shown.

3. Supplemental Data section located at end of Standard Series pages.

MODEL NUMBER CONFIGURATION

P510-





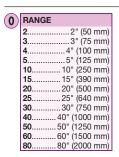


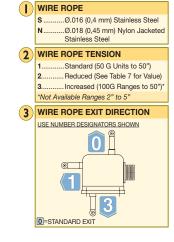


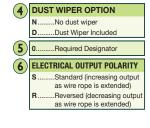


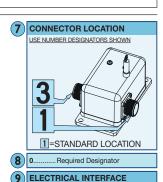
BASIC CONFIGURATION (FOR ALL RANGES)

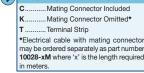
P510-50-S10-N0S-10C

















Self-generating tachometer

The **V Series** linear velocity transducer incorporates a self-generating tachometer which eliminates the need for any external power supply. Extra long brush life, excellent stability and a wide operating temperature range make the V series transducer highly reliable for long term service.



SPECIFICATIONS

GEN	ERAL
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Construction	Aluminum Cover & Baseplate
Sensing Device	Tacho-generator
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	See Table 5
Wire Rope Inbound Acceleration	See Table 5
Weight	
Up to 50"	1.2 lb. (0.54 Kg)
60" & 80"	1.54 lb. (0.70 Kg)
Dimensional Information	See Supplemental Data[2], Fig. 1 & 2
Options and Accessories	See Supplemental Data[2]
ELECTRICAL	

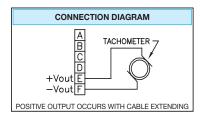
Output	. See Table 5
Linearity	. ±0.10% F.S. with 10 VDC Max Output
Dinale	20/ May

Ripple 3% Max. InputNone Required; Self Generating Output Impedance 350Ω

ENVIRONMENTAL

Operating temperature-40°C to +95°C Storage Temperature.....-55°C to +100°C Operating humidity.......90% R.H. max. Non-condensing Vibration 10G's to 2KHz Shock 50 G's 0.1 ms Max. Ingress Protection IP-40 (NEMA 1)

TABLE 5							
RANGE	VELOCITY OUTPUT		WIRE ROPE TENSION		WIRE ROPE ACCEL ^[1]	WEIGHT	
(inches)	(mV/in/sec)	(mV/cm/sec)	(oz)	(N)	(G's)	(lb)	(Kg)
2, 10	200	78	34	9.5	33	1.20	0.54
3, 15, 30	136	53	24	6.7	30	1.20	0.54
4, 20, 40	102	40	24	6.7	36	1.20	0.54
5, 25, 50	82	32	34	9.5	33	1.20	0.54
60	69	27	24	6.7	27	1.54	0.70
80	52	20	19	5.3	16	1.54	0.70



FOOTNOTES TO SPECIFICATIONS

Supplemental Data section located at end of Standard Series pages

MODEL NUMBER CONFIGURATION











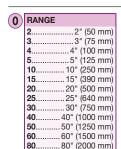


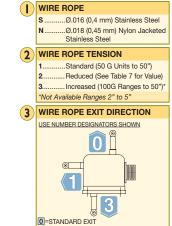


through Range -20°C to 75°C



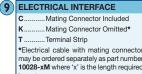
BASIC CONFIGURATION (FOR ALL RANGES) V-50-S10-N0S-10C

















Simultaneous velocity and position measurement

The VP Series combines a self-generating tachometer and a precision potentiometer to give an output of both velocity and analog position. Standard position output is a voltage divider circuit. Outputs optionally available are the bridge circuit, 4-20 mA, 0-10 VDC, and ±10 VDC. See PB, P420 and P510 series data sheets for specifications.



SPECIFICATIONS

FOR VPB, VP420 AND VP510 SERIES SPECIFICATIONS, SEE PB, P420, AND P510 SERIES PAGES.

GENERAL	
Positional Linearity (VPA Only)	
2", 3", 4" & 5" Ranges	±0.25% Full Scale
10", 15", 20" & 25" Ranges	±0.15% Full Scale
All other ranges	±0.10% Full Scale
Repeatability ¹	±0.015% Full Scale
Positional Resolution	Essentially Infinite
Construction	Aluminum Cover & Baseplate
Sensing Devices	Tacho-Generator (velocity)
5	Precision Potentiometer (position
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	See Table 6
Wire Rope Inbound Acceleration	See Table 6
Weight	
Up to 50"	1.96 lb. (0.54 Kg)
60" & 80"	2.20 lb. (1.00 Kg)
Dimensional Information	
Options and Accessories	See Supplemental Data[1]
ENVIRONMENTAL	• •
T 10 (11) () ()	400 DD14/00

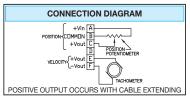
Thermal Coefficient of potentiometer.....±100 PPM/°C max. Operating temperature-40°C to +95°C Operating humidity......95% R.H. max. non-condensing Vibration15 G's 0.1 ms max. Shock50 G's 0.1 ms max. Ingress ProtectionIP-40 (NEMA 1)

FOOTNOTES TO SPECIFICATIONS

ELECTRICAL (POSITION)

	Input Impedance ("A" Circuit)	1000Ω ±10%
	Excitation Voltage (Ve)	25 Volts Max. AC or DC
	Output Voltage Change Over	
	Full Range of Transducer	92% to 98% of Excitation Voltage
- 1	ELECTRICAL (VELOCITY)	
	Output	See Table 6
	Linearity	±0.10% F.S. with 10 VDC Max Output
	Ripple	3% Max.
on)	Output Impedance	350Ω

TABLE 6								
RANGE	VELOCIT	Y OUTPUT	ROPE SION	WIRE ROPE ACCEL	WEIGHT			
(inches)	(mV/in/sec)	(mV/cm/sec)	(oz)	(N)	(G's)	(lb)	(Kg)	
2, 10	200	78	34	9.5	33	1.20	0.54	
3, 15, 30	136	53	24	6.7	30	1.20	0.54	
4, 20, 40	102	40	24	6.7	36	1.20	0.54	
5, 25, 50	82	32	34	9.5	33	1.20	0.54	
60	69	27	24	6.7	27	1.54	0.70	
80	52	20	19	5.3	16	1.54	0.70	



MODEL NUMBER CONFIGURATION



E ELECTRICAL OUTPUT









.....Ø.016 (0,4 mm) Stainless Steel

Stainless Steel

.Ø.018 (0,45 mm) Nylon Jacketed

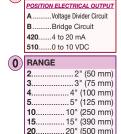






BASIC CONFIGURATION (FOR ALL RANGES)

VPA-50-S10-N1S-10C



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50

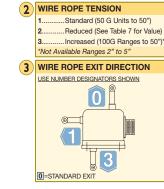
80

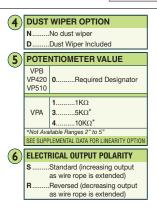
25" (640 mm)

30" (750 mm) 40" (1000 mm)

50" (1250 mm) .60" (1500 mm)

.80" (2000 mm)







Supplemental Data section located at end of Standard Series pages.



FP Two channel digital output _High accuracy UniMeasure



Two channel digital output

Utilizing an incremental encoder as the sensor, the UniMeasure EP Series position transducer provides a quadrature square wave output. The resolution values shown in Table 4 indicate resolution for times 1 counting mode where a count is registered for one up transition on channel A. With interface electronics capable of times 2 or times 4 counting mode, a true resolution increase of 2 or 4 may be obtained. The actual resolution of an EP transducer differs slightly from unit to unit because of tolerances associated with the wire rope diameter and the capstan upon which the wire rope winds. In applications where the output count is interpreted as a percentage of total travel, resolution differences from unit to unit are not critical. In applications where the digital output is to be interfaced to a digital display to give an output in engineering units,

the calibration constant supplied with the transducer may be used to calculate a suitable scale multiplier to produce the correct engineering units. Alternative outputs shown in the "Optional Electrical Outputs" Table 8 are available to facilitate interfacing to a variety of different types of equipment.

SPECIFICATIONS

GENE	ERAL
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GENERAL	
Linearity	±0.03% Full Scale
Resolution[1]	See Table 4
Repeatability ^[2]	±0.015% Full Scale
Construction	Aluminum Cover & Baseplate
Sensing Device	Digital Encoder
Connector	MS3102A-14S-6P
Wire Rope	Ø.016 Stainless Steel
Wire Rope Tension	
Wire Rope Inbound Acceleration	See Table 4
Reduced Wire Rope Tension	See Supplemental Data, Table 7
Weight	
Un to EO"	1.0 lb (0.45 Ka)

...... 1.0 lb. (0.45 Kg) 60" & 80"......1.4 lb. (0.63 Kg)

Dimensional Information See Supplemental Data^[4], Fig. 1 & 2 . See Supplemental Data[4] Options and Accessories......

ENVIRONMENTAL

Operating temperature	20°C to +80°C
Storage temperature	40°C to +100°C
Shock	50 G's for 11 ms duration
Vibration	20 Hz to 2000 Hz @ 5G's
Humidity	98% R.H. max.(non-condensing)
Ingress Protection	

ELECTRICAL

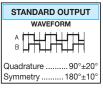
Input Voltage	+5 VDC ±5% or 5-28 VDC
Input Current	125 mA maximum
Output	Two channel TTL square wa

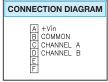
TABLE 4

MODEL	RA	NGE	RE	SOLUTION	WIRE ROPE				
WIODEL	(in)	(mm)	counts/inch	counts/mm	TOLERANCE	TENSION	ACCEL (G's)[3]		
EP-10	10	250	500.0	19.69	±0.30%	34 oz	43		
EP-25	25	640	250.0	9.84	±0.20%	34 oz	37		
EP-50	50	1250	250.0	9.84	±0.20%	34 oz	37		
EP-60	60	1.5 m	205.8	8.10	±0.20%	24 oz	18		
EP-80	80	2.0 m	155.2	6.11	±0.20%	19 oz	7		
	MOTE F. I. I.								

NOTE: For reduced wi tension & accelerati TABLE 7 on Page 29







- FOOTNOTES TO SPECIFICATIONS
 The resolution shown is a calculated number based upon the capstan diameter, cable diameter and line count of the encoding device. The tolerance on the resolution accounts for resolutional differences from unit to unit due to manufacturing tolerances on the capstan and cable. In practice, the output count in a given unit of travel is an integer.
 Moving to the same position from the same direction.
- Moving to the same position from the same solution.
 Maximum cable retraction acceleration.
 Supplemental Data section located at end of Standard Series pages.

MODEL NUMBER CONFIGURATION

| WIRE ROPE













.Ø.018 (0,45 mm) Nylon Jacketed

S......Ø.016 (0.4 mm) Stainless Steel

Stainless Steel



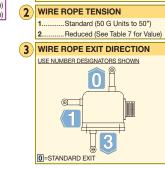


Basic Configuration

(FOR ALL RANGES)

EP-50-S10-N10-10C









0.....Required Designator

ELECTRICAL INTERFACE ... Mating Connector Included . Mating Connector Omitted* ... Terminal Strip

> *Electrical cable with mating connector may be ordered separately as part numbe 10028-xM where 'x' is the length required

ADDITIONAL OPTIONS

TABLE 7

	STANDARD SERIES — WIRE ROPE TENSION AND ACCELERATION																		
	PA, PB, P420, P510 SERIES								EP SERIES					V & VP SERIES					
RA	ANGE		ROPE	STANDARD WIRE ROPE ACCEL	REDI WIRE TENS	ROPE	REDUCED WIRE ROPE ACCEL	STAN WIRE TENS	ROPE	STANDARD WIRE ROPE ACCEL	WIRE	UCED ROPE ISION	REDUCED WIRE ROPE ACCEL	STAN WIRE TEN	ROPE	STANDARD WIRE ROPE ACCEL	REDI WIRE TENS	ROPE	REDUCED WIRE ROPE ACCEL
(in)	(mm)	(oz)	(N)	(G's)	(oz)	(N)	(G's)	(oz)	(N)	(G's)	(oz)	(N)	(G's)	(oz)	(N)	(G's)	(oz)	(N)	(G's)
2	50	34	9.5	>50	16	4.4	28	-	-	-		-	_	34	9.5	33	16	4.4	14
3	75	24	6.7	>50	14	3.9	16	-	-	-		-	_	24	6.7	30	14	3.9	15
4	100	24	6.7	>50	11	3.1	12	-	-	-		_	_	24	6.7	36	11	3.1	15
5	125	34	9.5	>50	8	2.2	7	-	-	-		-	-	34	9.5	33	8	2.2	6
10	250	34	9.5	>50	16	4.4	28	34	9.5	43	16	4.4	19	34	9.5	33	16	4.4	14
15	390	24	6.7	>50	14	3.9	16	-	-	_		-	_	24	6.7	30	14	3.9	15
20	500	24	6.7	>50	11	3.1	12	-	-	-		-	_	24	6.7	36	11	3.1	14
25	640	34	9.5	>50	8	2.2	7	34	9.5	37	8	2.2	7	34	9.5	33	8	2.2	6
30	750	24	6.7	>50	14	3.9	16	-	-	-		_	-	24	6.7	30	14	3.9	15
40	1000	24	6.7	>50	11	3.1	12	-	-	-		-	_	24	6.7	36	11	3.1	12
50	1250	34	9.5	>50	8	2.2	7	34	9.5	37	8	2.2	7	34	9.5	33	8	2.2	5
60	1500	24	6.7	27	7	1.8	2	24	6.7	18	7	1.8	5	24	6.7	27	7	1.8	6
80	2000	19	5.3	16	5	1.4	2	19	5.3	7	5	1.4	2	19	5.3	16	5	1.4	3

TABLE 8

EP, HX-EP SERIES OPTIONAL ELECTRICAL OUTPUTS

OPTION	OUTPUT DESCRIPTION	OUTPUT STAGE	WAVEFORM	CONNECTOR WIRING	
10	5 VDC Current Sinking 5 VDC TTL compatible output. Input Voltage: 5 VDC.	+5 VDC ANZ86231 Vout COMMON	A B A B A B A B A B A B A B A B A B A B	A +Vin B COMMON C CHANNEL A	
50	8 to 28 VDC Current Sinking Current sinking output with $10 \mathrm{K}\Omega$ internal pullup resistors. Input Voltage: 8 to 28 VDC.	+8 to +28 VDC 10KΩ 	₿╽╃┯╇╇	D CHANNEL B	
30	5 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output. Output is compliant with requirements of TIA/EIA-422-B. Input Voltage: 5 VDC input.	+5 VDC AM26C31 Vout COMMON		A +Vin B COMMON C CHANNEL A	
70	8 to 28 VDC Push-Pull Differential Line Drive Push-Pull, current sourcing and current sinking output. Input Voltage: 8 to 28 VDC.	+8 to +28 VDC 7272	B CHANNEL A CHANNEL B CHANNEL B		



LIFE

Ranges 2" to 5"	5,000,000 full stroke cycles
Ranges 10" to 25"	500,000 full stroke cycles
Ranges 30" to 80"	250,000 full stroke cycles

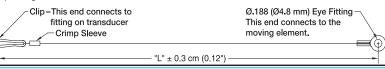
^{*}With 1K ohm potentiometer, wire rope misalignment 2° maximum at full stroke, relatively dust free environment, and with nylon jacketed wire rope

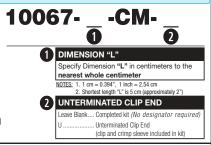
OPTION DESCRIPTIONS

OPTION	OPTION DESIGNATOR	DESCRIPTION				
Nylon jacketed wire rope	N	Replaces standard stainless steel wire rope with \emptyset .018 nylon jacketed wire rope. Increases wire rope life dramatically but may increase non-linearity by as much as $\pm 0.05\%$ of full scale.				
Reduced Wire Rope Tension	2	Reduces the overall tension in the wire rope and increases wire rope life. Dynamic response of the transducer is reduced due to the reduced inbound acceleration capability.				
Increased Wire Rope Tension	3	Increases tension in the wire rope which increases the dynamic response of the transducer. On selected units with range of 50" (1250 mm) or less, inbound acceleration capability is 100G's. Wire rope life may be adversely affected by the high tension option.				
Dust wiper	D	Lubricated wiper strips dust and debris from wire rope as it retracts into case. Adds 0.36" (9 mm) height to wire rope exit location.				
Non-standard potentiometer (applies to PA series only)	3,4	Non-standard potentiometer linearity is as follows: RANGE LINEARITY 10" to 25" ±0.50% of full scale 30" and above ±0.25% of full scale Note: This option is subject to potentiometer availability.				
Reversed output	R	Output is at a maximum when wire rope is fully retracted. Output decreases as wire rope is extended. Does not apply to velocity or encoder signal.				
Terminal strip	Т	Replaces connector with a terminal strip.				

10067 - AUXILIARY WIRE ROPE EXTENSION KIT

The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the measurement point. The clip on the extension attaches to the eye fitting on the transducer. The eye fitting on the opposite end, which is identical to the fitting on the transducer, mounts to the moving element. The extension kit is also available with the clip end unterminated for situations where it is more convenient to size the wire rope length during installation. Clip and crimp fitting are included with the unterminated version.





REPLACEMENT WIRE ROPE KITS

The replacement Wire Rope Kit includes a new wire rope with all end terminations, wire rope guide, felt dust wiper where applicable and installation instructions. To order, replace 'xx' in the part number with the applicable measurement range in inches.

10107-xx Replacement Wire Rope Kit—Standard Ø.016" Stainless Steel Wire Rope.

10108-xx Replacement Wire Rope Kit—Ø.018" Nylon Jacketed Stainless Steel Wire Rope.

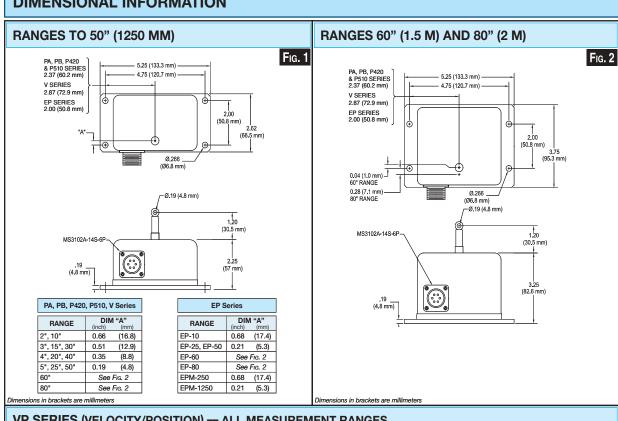
10127-xx Replacement Wire Rope Kit—Standard Ø.016" Stainless Steel Wire Rope with Dust Wiper.

10128-xx Replacement Wire Rope Kit—Ø.018" Nylon Jacketed Stainless Steel Wire Rope with Dust Wiper.



P510 Position Transduceur Analog Output

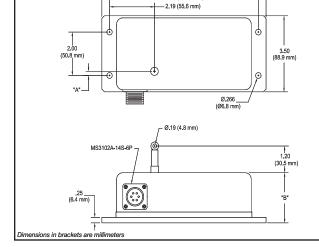
DIMENSIONAL INFORMATION



VP SERIES (VELOCITY/POSITION) — ALL MEASUREMENT RANGES

8.00 (203.2 mm) - 7.25 (184.2 mm)





VP Series				
RANGE	DIM (inch)	"A" (mm)	DIM (inch)	"B" (mm)
2", 10"	0.66	16.8	2.25	57.0
3", 15", 30"	0.51	12.9	2.25	57.0
4", 20", 40"	0.35	8.8	2.25	57.0
5", 25", 50"	0.19	4.8	2.25	57.0
60"	0.04	1.0	3.25	82.6
80"	-0.28	-7.1	3.25	82.6