

# New Big Look, Horizon Line and Stylist Panel Meters

## Suspension

### Taut Band

Taut band is a means of suspending the moving mechanism between two ribbons of metal, obviating the need for pivots, jewels and control springs found in conventional mechanisms. The absence of friction resulting from this permits greater sensitivities and provides more rugged meters. Common failures of conventional meters subjected to shock testing are cracked jewels and/or blunted pivots. Taut band, without pivot and jewels, consequently, will withstand shock in excess of that specified for pivot and jewel meters. For example, ANSI Specifications for panel meters require 50G shock. Taut-band meters will withstand 100G shock.

### Pivot and Jewel

In this design the coil and pointer are supported by polished steel pivots at each end which fit into jewel bearings. Pivot and jewel meters are recommended for high-vibration environments because of the mechanism's inherent stability and strength. Accuracy and repeatability are almost equal to the taut-band's, and good performance from the pivot and jewel construction is the reason for its long popularity. Don't specify pivot and jewel meters for applications that involve high shock, but do take advantage of this meter's ability to withstand vibration.

### High-sensitivity DC Voltmeters

Standard DC voltmeter sensitivity is 1000 ohms/volt. Expressed differently, 1000 ohms/volt sensitivity means that the meter draws approximately one milliamp full-scale current.

Occasionally lower current drains are necessary, hence higher sensitivities may be required. The table below compares available sensitivities, maximum self-contained voltages, and approximate full-scale currents. The voltage range could be extended by using external resistors.

### Maximum and Minimum Ratings

In general, the maximum and minimum ratings of current and voltage are those listed in "Ratings." Listed are rating limits for self-contained meters.

Ratings greater than those listed can be accomplished by use of external shunts, resistors or transformers. Meters to be used with external accessories are shown in "Ratings." See page 29 for Shunts, and resistors.

## Expanded-scale Voltmeters

For very close monitoring of voltages, Zener diode expanded scale voltmeters are available in 3½- and 4½-inch sizes for AC and DC ratings. Accuracy is ±0.5% of full-scale value. Standard voltage spans are listed in "Ratings."

Expanded scale voltmeters can be furnished for any mid-span values from 12 to 300 volts. Minimum span is 16% of mid-span value.

### Frequency Effect — AC Meters

Iron vane voltmeters are sensitive to frequency and should not be used on frequencies other than design frequency. (Standard voltmeters are calibrated at 60 Hertz. Used at 50 Hertz, accuracy becomes ±2½%. There are also 150- and 300-volt ratings listed which are calibrated at 400 Hertz). For calibrations at frequencies other than 60 and 400 Hertz, refer to factory.

All Iron-vane ammeters (which produce a conventional scale distribution with divisions crowded in lower third of scale) from 10 milliamperes to 50 amperes are virtually unaffected by a change in frequency; e.g., a stock ammeter (calibrated at 60 Hertz) when used at 400 Hertz incurs an additional error of only .5 percent full-scale. If used on 1000 Hertz, the additional error is 4 percent. We recommend use of stock (60 Hertz) ammeters on any frequency in the range of 25 Hertz to 400 Hertz. For calibration at frequencies outside the 25-Hertz to 400-Hertz range, refer to factory or use a rectifier-type AC ammeter.

### Rectifier-type Meters

Rectifier-type meters differ from iron-vane mechanisms in that:

- They provide a nominally linear (DC) scale rather than conventional iron-vane distribution which has a slight crowding at low end of scale.

- AC current measurements of microamperes and milliamperes at minimum power consumption are permitted.

- AC voltmeters of higher sensitivity (ohms/volt) than iron-vane types can be made.

- Frequency response of rectifier type meters is essentially flat from 20 to 1,000 Hertz (1% effect from reference to 60 Hertz).

Rectifier-type meters employ a full-wave rectifier and are available in ratings of 500µA to 30A.

### Suppressed-zero DC Meters

DC meters can be mechanically suppressed up to 20% of end-scale value. However, additional errors are introduced by suppressions; e.g.,

$$\text{Errors at 20\% suppression} = \pm 3\% \text{ of end-scale}$$

Many process transmitters in use today provide a 4-20mA signal (occasionally 10-50 mA or 1-5mA) and require a suppressed-zero meter with operating zero set. These are known as "live-zero" and are standard.

### Higher Accuracy

Standard calibration accuracy is ±2% of full scale. DC meters can be calibrated to ±1% of full scale as a special model in 3½" and 4½" with mirrored scale.

### Conduit Mounting Case — 2½-inch New Big Look Meter

Available only for 2½-inch Type 250 panel meters, for indoor or outdoor use, the conduit-mounted case provides protection to the meter under severe environmental conditions. The conduit case is both sealed and weatherproof and is pre-drilled, ready for mounting of separately ordered panel meters. Assembly of meter into case is done by purchaser. (Drawing No. 2579K10700.)

**Data subject to change without notice.**

#### MINIMUM RATING

SERIES	STYLIST				BIG LOOK & HORIZON LINE			
	1½	2½	3½	4½	1½	2½	3½	4½
DC CURRENT	10µA				20µA			50µA
DC VOLTAGE	50mV				50mV			
AC CURRENT (IRON VANE)	---	10mA			---	10mA		
AC VOLTAGE (IRON VANE)	---	3V			---	3V		
AC CURRENT (RECTIFIER)	1mA				500µA			
AC VOLTAGE (RECTIFIER)	3V				10V			

#### MAXIMUM RATING

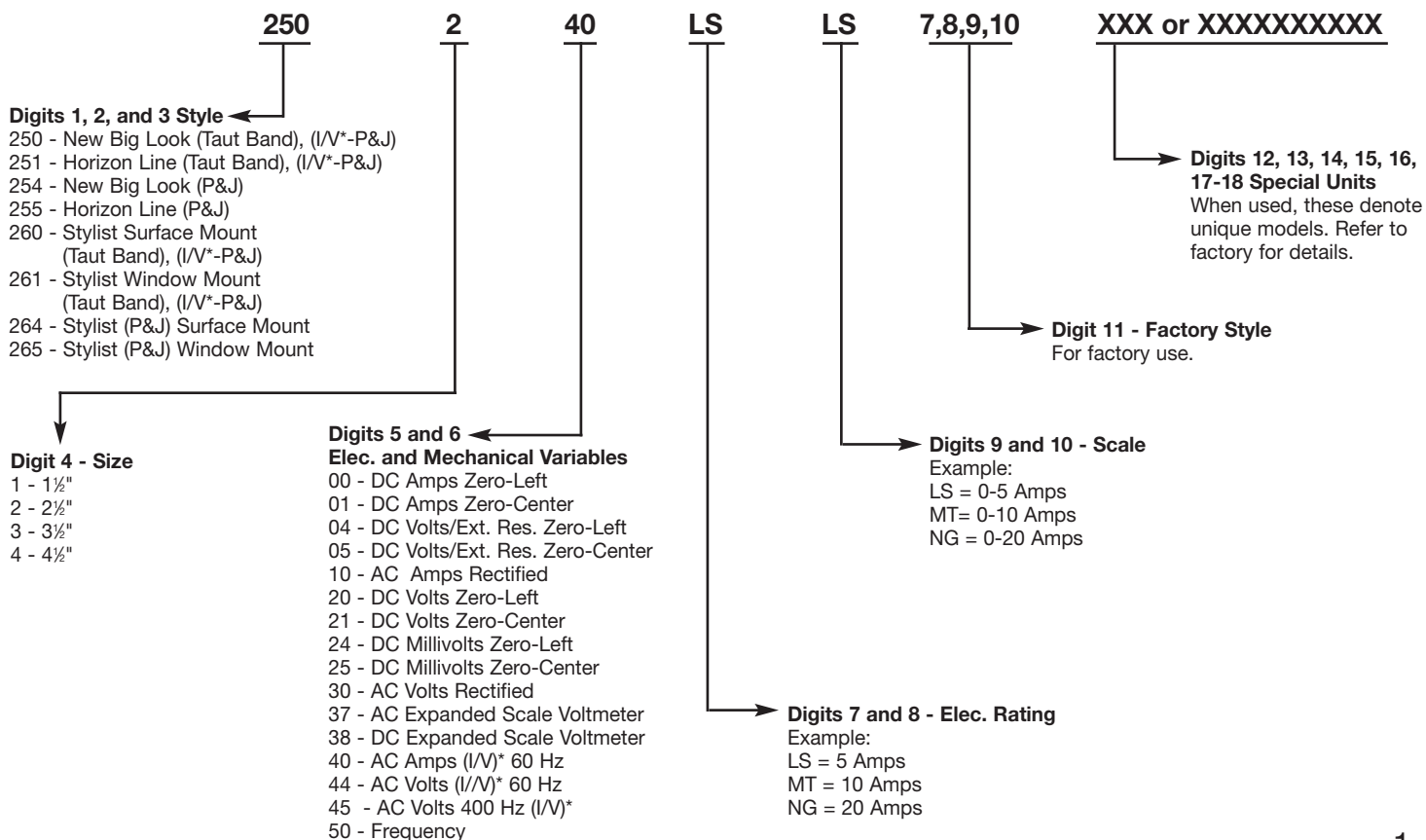
DC CURRENT	10A	50A		15A	30A	50A	
DC VOLTAGE	1000V		300V		600V		
AC CURRENT (IRON VANE)	---	50A		---	30A		80A
AC VOLTAGE (IRON VANE)	---	600V		---	300V		600V
AC CURRENT (RECTIFIER)	100mA	30A		20mA			
AC VOLTAGE (RECTIFIER)	600V		150V		300V		



# Table of Contents

Parameters and Specifications	Case Style	New Big Look	Horizon Line	Stylist	Elapsed Time	185 Edgewise	280 Edgewise
DC Voltmeters		2-3	8	14		26	28
DC Ammeters		3-5	8-10	15-16		27	29
DC Microammeters		3	8-9	15		26	29
DC Milliammeters		3-4	9	15		26-27	29
AC Voltmeters		5-6	10-11	17		27	29
AC Ammeters		6-7	11-12	17-19			29
AC Microammeters		6	11				29
AC Milliammeters		6	11	17, 18			29
AC Frequency Meters		13	13	19			
AC Motor Load Indicators		12	12				
Expanded Scale Voltmeters		3,5	8, 11	14, 17			
Elapsed Time Meters					24-25		
Terminal Resistance Values		20-21	20-21	22-23		26-27	28-29
Cross Reference to Other Manufacturers		33	33	33			
Electrical and Physical Options		31-32	31-32	31-32		31-32	31-32
Parts & Accessories		30	30	30		30	30
Dimensional Drawings		33-34	35-36	37	39-40	38	39

## Key to 200-Prefix Catalog Numbers



\*I/V = Iron Vane Mechanism



# AC Frequency Meters – Available in Horizon Line or New Big Look

Size			1½	2½	3½	4½
Voltage ±20%	Center Frequency Hertz	Scale Hertz	Cat. No.	Cat. No.	Cat. No.	Cat. No.

**AC FREQUENCY – PIVOT AND JEWEL, SELF-CONTAINED, ACCURACY ±3 PERCENT OF SPAN; I.E., 0.3 Hz FOR 45-55 AND 55-65, AND 1.2 Hz FOR 380-420 RANGE**

120	50	45-55	.....	250 AGAG	350 AGAG	450 AGAG			
120	55	45-65	.....	250 AJAJ	350 AJAJ	450 AJAJ			
120	60	55-65	.....	250 ANAN	350 ANAN	450 ANAN			
120	400	380-420	.....	250 BKBK	350 BKBK	450 BKBK			
208	50	45-55	.....	Choose prefix 254 or 255	Choose prefix 254 or 255	Choose prefix 254 or 255			
208	55	45-65	.....				250 GGGG	350 GGGG	450 GGGG
208	60	55-65	.....				250 GJGJ	350 GJGJ	450 GJGJ
208	400	380-420	.....				250 GNGN	350 GNGN	450 GNGN
240	50	45-55	.....	250 HKHK	350 HKHK	450 HKHK			
240	55	45-65	.....	250 DGDG	350 DGDG	450 DGDG			
240	60	55-65	.....	250 DJDJ	350 DJDJ	450 DJDJ			
240	400	380-420	.....	250 DNDN	350 DNDN	450 DNDN			
480	60	55-65	.....	250 EKEK	350 EKEK	450 EKEK			
				254 250 LNLN	254 350 LNLN	254 450 LNLN			

NOTE: For non-listed voltages, up to 480 VAC, frequency ranges or special calibration (accuracy ±2% of span) contact factory. For taut-band suspension replace prefix 254 with 250 and prefix 255 with 251.

## YOKOGAWA ◆ Stylist Series



Type 260 and 264  
Stylist Surface Mount

### Specifications

**Accuracy:** All DC and AC iron vane, ±2% of fullscale, AC rectifier type; ±3% of fullscale (with 60 Hz sine wave at 25°C). Expanded scale voltmeters ±0.5% of fullscale. Special order  
DC with mirror back scale (DC only) 3 1/2 - 4 1/2" Available @ ±1%.

**ANSI Specification:** All meters meet ANSI Specifications C-39.1 (See page 14 for exceptions.)

**Overload:** Voltmeters (AC + DC) - 50% momentary, 20% sustained. Ammeters (AC +DC) momentary: 10 times the rated current for 10 consecutive intervals of .5 seconds with 1 minute interval between successive applications; sustained: 20% for six hours.

### Scale Data:

ARC	90°	95°
METER SIZE	AC IRON VANE	TAUT BAND/ PIVOT & JEWEL
1½"	—	1.66"
2½"	2.15"	2.29"
3½"	2.70"	2.85"
4½"	3.80"	4.01"

**Insulation Level:** 2600V/1 min. (2½"-4½")  
1500V/1 min. (1½")

### Response Time:

3 seconds (Max.) - Microammeters  
2 seconds (Max.) - All other DC ratings  
2.5 seconds (Max.) - All AC ratings  
Maximum 40% overshoot

**Dimensions:** See page 38.

**Burden Data:** AC Ammeter 5 amps @ 60 Hz, 0.5VA, Max. .5 Power factor lagging, AC voltmeter - unity power factor.

### Notes:

Severe-duty meters are available to meet /CUL or /UL 1437 requirements in 2½"-4½" sizes. To order, add /UL or /CUL after catalog number, or contact factory.



## DC Voltmeters

Rating & Scale \ Size	1½	2½	3½	4½
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### DC MILLIVOLTMETERS — ZERO-LEFT

0-50 0-100	260124ECEC 260124GBGB	26□ 224ECEC 26□ 224GBGB	26□ 324ECEC 26□ 324GBGB	26□ 424ECEC 26□ 424GBGB
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### DC MILLIVOLTMETERS — ZERO-CENTER

50-0-50 100-0-100	260125ECEC 260125GBGB	26□ 225ECEC 26□ 225GBGB	26□ 325ECEC 26□ 325GBGB	26□ 425ECEC 26□ 425GBGB
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### DC VOLTMETERS — ZERO-LEFT

0-1 0-1.5 0-2 0-3 0-5	260120LALA 260120LCLC 260120LELE 260120LJLJ 260120LSLS	26□ 220LALA 26□ 220LCLC 26□ 220LELE 26□ 220LJLJ 26□ 220LSLS	26□ 320LALA 26□ 320LCLC 26□ 320LELE 26□ 320LJLJ 26□ 320LSLS	26□ 420LALA 26□ 420LCLC 26□ 420LELE 26□ 420LJLJ 26□ 420LSLS
0-10 0-15 0-20 0-25 0-30	260120MTMT 260120NDND 260120NGNG 260120NJNJ 260120NLNL	26□ 220MTMT 26□ 220NDND 26□ 220NGNG 26□ 220NJNJ 26□ 220NLNL	26□ 320MTMT 26□ 320NDND 26□ 320NGNG 26□ 320NJNJ 26□ 320NLNL	26□ 420MTMT 26□ 420NDND 26□ 420NGNG 26□ 420NJNJ 26□ 420NLNL
0-40 0-50 0-75 0-80 0-100	260120PNPN 260120NTNT 260120PBPB 260120PPPD 260120PKPK	26□ 220PNPN 26□ 220NTNT 26□ 220PBPB 26□ 220PPPD 26□ 220PKPK	26□ 320PNPN 26□ 320NTNT 26□ 320PBPB 26□ 320PPPD 26□ 320PKPK	26□ 420PNPN 26□ 420NTNT 26□ 420PBPB 26□ 420PPPD 26□ 420PKPK
0-150 0-200 0-250 0-300 0-500	260120PZPZ 260120RLRL 260120RSRS 260120RXRX 260120SFSF	26□ 220PZPZ 26□ 220RLRL 26□ 220RSRS 26□ 220RXRX 26□ 220SFSF	26□ 320PZPZ 26□ 320RLRL 26□ 320RSRS 26□ 320RXRX 26□ 320SFSF	26□ 420PZPZ 26□ 420RLRL 26□ 420RSRS 26□ 420RXRX 26□ 420SFSF
* 0-600 * 0-750 * 0-1000	260120SJSJ 260120SMSM 260120SSSS	26□ 220SJSJ 26□ 220SMSM 26□ 220SSSS	26□ 320SJSJ 26□ 320SMSM 26□ 320SSSS	26□ 420SJSJ 26□ 420SMSM 26□ 420SSSS

### DC VOLTMETERS — ZERO-CENTER

5-0-5 10-0-10 15-0-15 25-0-25 50-0-50	260121LSLS 260121MTMT 260121NDND 260121NJNJ 260121NTNT	26□ 221LSLS 26□ 221MTMT 26□ 221NDND 26□ 221NJNJ 26□ 221NTNT	26□ 321LSLS 26□ 321MTMT 26□ 321NDND 26□ 321NJNJ 26□ 321NTNT	26□ 421LSLS 26□ 421MTMT 26□ 421NDND 26□ 421NJNJ 26□ 421NTNT
100-0-100 150-0-150 300-0-300 500-0-500 600-0-600	260121PKPK 260121PZPZ 260121RXRX 260121SFSF 260121SJSJ	26□ 221PKPK 26□ 221PZPZ 26□ 221RXRX 26□ 221SFSF 26□ 221SJSJ	26□ 321PKPK 26□ 321PZPZ 26□ 321RXRX 26□ 321SFSF 26□ 321SJSJ	26□ 421PKPK 26□ 421PZPZ 26□ 421RXRX 26□ 421SFSF 26□ 421SJSJ

### DC VOLTMETERS — EXPANDED SCALE

5 ± 10% 12 ± 10% 15 ± 10% 28 ± 10% 48 ± 10%		26□ 238LYLY 26□ 238MYMY 26□ 238NFnF 26□ 238NHnH 26□ 238NSnS	26□ 338LYLY 26□ 338MYMY 26□ 338NFnF 26□ 338NHnH 26□ 338NSnS	26□ 438LYLY 26□ 438MYMY 26□ 438NFnF 26□ 438NHnH 26□ 438NSnS
120 ± 10% 150 ± 10% 300 ± 10%		26□ 238PPPP 26□ 238PYPY 26□ 238RWRW	26□ 338PPPP 26□ 338PYPY 26□ 338RWRW	26□ 438PPPP 26□ 438PYPY 26□ 438RWRW

### DC VOLTMETERS — PERCENT DEVIATION ±.05% FULL SCALE ACCURACY

12 ± 10% 28 ± 10% 120 ± 10%		26□ 221MYMY 26□ 221NHnH 26□ 221PPPP	26□ 321MYMY 26□ 321NHnH 26□ 321PPPP	26□ 421MYMY 26□ 421NHnH 26□ 421PPPP
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**NOTE ON ORDERING:** The ranges and catalog numbers in this catalog refer to both surface and window mount panel meters. To specify your choice, replace the □ in the catalog number with either of the following: 0 for Surface Mount (Taut Band), 1 for Window Mount (Taut Band), 4 for Surface Mount (Pivot & Jewel) or 5 for Window Mount (Pivot & Jewel). (1½" is only available in Surface Mount (Taut Band).



# DC Ammeters

Rating & Scale \ Size	1½	2½	3½	4½
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## DC MICROAMMETERS – ZERO-LEFT

0-10	260100BZBZ	26 □ 200BZBZ*	26 □ 300BZBZ*	26 □ 400BZBZ*
0-20	260100CFCF	26 □ 200CFCF*	26 □ 300CFCF*	26 □ 400CFCF*
0-50	260100CYCY	26 □ 200CYCY	26 □ 300CYCY	26 □ 400CYCY
0-100	260100DRDR	26 □ 200DRDR	26 □ 300DRDR	26 □ 400DRDR
0-200	260100EAEA	26 □ 200EAEA	26 □ 300EAEA	26 □ 400EAEA
0-500	260100EMEM	26 □ 200EMEM	26 □ 300EMEM	26 □ 400EMEM

## DC MICROAMMETERS – ZERO-CENTER

10-0-10	260101BZBZ	26 □ 201BZBZ*	26 □ 301BZBZ*	26 □ 401BZBZ*
25-0-25	260101CJCJ	26 □ 201CJCJ	26 □ 301CJCJ	26 □ 401CJCJ
50-0-50	260101CYCY	26 □ 201CYCY	26 □ 301CYCY	26 □ 401CYCY
100-0-100	260101DRDR	26 □ 201DRDR	26 □ 301DRDR	26 □ 401DRDR
500-0-500	260101EMEM	26 □ 201EMEM	26 □ 301EMEM	26 □ 401EMEM

\*Taut Band Only

## DC MILLIAMMETERS – ZERO-LEFT

0-1	260100FAFA	26 □ 200FAFA	26 □ 300FAFA	26 □ 400FAFA
0-2	260100FGFG	26 □ 200FGFG	26 □ 300FGFG	26 □ 400FGFG
0-3	260100FNFN	26 □ 200FNFN	26 □ 300FNFN	26 □ 400FNFN
0-5	260100FXFX	26 □ 200FXFX	26 □ 300FXFX	26 □ 400FXFX
0-10	260100GZGZ	26 □ 200GZGZ	26 □ 300GZGZ	26 □ 400GZGZ
0-15	260100HCHC	26 □ 200HCHC	26 □ 300HCHC	26 □ 400HCHC
0-20	260100HFHF	26 □ 200HFHF	26 □ 300HFHF	26 □ 400HFHF
0-25	260100HJHJ	26 □ 200HJHJ	26 □ 300HJHJ	26 □ 400HJHJ
0-30	260100HMHM	26 □ 200HMHM	26 □ 300HMHM	26 □ 400HMHM
0-50	260100HYHY	26 □ 200HYHY	26 □ 300HYHY	26 □ 400HYHY
0-100	260100JRJR	26 □ 200JRJR	26 □ 300JRJR	26 □ 400JRJR
0-150	260100JXJX	26 □ 200JXJX	26 □ 300JXJX	26 □ 400JXJX
0-200	260100KAKA	26 □ 200KAKA	26 □ 300KAKA	26 □ 400KAKA
0-300	260100KGKG	26 □ 200KGKG	26 □ 300KGKG	26 □ 400KGKG
0-500	260100KMKM	26 □ 200KMKM	26 □ 300KMKM	26 □ 400KMKM
0-750	260100KUKU	26 □ 200KUKU	26 □ 300KUKU	26 □ 400KUKU

## DC MILLIAMMETERS – ZERO-CENTER

1-0-1	260101FAFA	26 □ 201FAFA	26 □ 301FAFA	26 □ 401FAFA
5-0-5	260101FXFX	26 □ 201FXFX	26 □ 301FXFX	26 □ 401FXFX
10-0-10	260101GZGZ	26 □ 201GZGZ	26 □ 301GZGZ	26 □ 401GZGZ
25-0-25	260101HJHJ	26 □ 201HJHJ	26 □ 301HJHJ	26 □ 401HJHJ
50-0-50	260101HYHY	26 □ 201HYHY	26 □ 301HYHY	26 □ 401HYHY
100-0-100	260101JRJR	26 □ 201JRJR	26 □ 301JRJR	26 □ 401JRJR
200-0-200	260101KAKA	26 □ 201KAKA	26 □ 301KAKA	26 □ 401KAKA
500-0-500	260101KMKM	26 □ 201KMKM	26 □ 301KMKM	26 □ 401KMKM

## DC MILLIAMMETERS – SUPPRESSED ZERO (Indicating receiving gauge applications ±3% F.S.)

0.25-1.25	260100FEFE	26 □ 200FEFE	26 □ 300FEFE	26 □ 400FEFE
1-5	260100FYFY	26 □ 200FYFY	26 □ 300FYFY	26 □ 400FYFY
4-20	260100HEHE	26 □ 200HEHE	26 □ 300HEHE	26 □ 400HEHE
10-50	260100HXHX	26 □ 200HXHX	26 □ 300HXHX	26 □ 400HXHX

These meters are supplied with 0-100 dial labeled PERCENT.

## DC AMMETERS – ZERO-LEFT, SELF-CONTAINED

0-1	260100LALA	26 □ 200LALA	26 □ 300LALA	26 □ 400LALA
0-1.5	260100LCLC	26 □ 200LCLC	26 □ 300LCLC	26 □ 400LCLC
0-2	260100LELE	26 □ 200LELE	26 □ 300LELE	26 □ 400LELE
0-3	260100LJLJ	26 □ 200LJLJ	26 □ 300LJLJ	26 □ 400LJLJ
0-5	260100LSLS	26 □ 200LSLS	26 □ 300LSLS	26 □ 400LSLS
0-10	260100MTMT	26 □ 200MTMT	26 □ 300MTMT	26 □ 400MTMT
0-15	—	26 □ 200NDND	26 □ 300NDND	26 □ 400NDND
0-20	—	26 □ 200NGNG	26 □ 300NGNG	26 □ 400NGNG

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## DC Ammeters Cont'd

Rating & Scale \ Size	1½	2½	3½	4½
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### DC AMMETERS – ZERO-LEFT, SELF-CONTAINED (cont'd)

0-25	—	26 □ 200NJNJ	26 □ 300NJNJ	26 □ 400NJNJ
0-30	—	26 □ 200NLNL	26 □ 300NLNL	26 □ 400NLNL
0-50	—	26 □ 200NTNT	26 □ 300NTNT	26 □ 400NTNT

### DC AMMETERS – ZERO-LEFT, 50mV SHUNT RATED (LEAD RES. RANGE: .05-.07Ω)\*

S O N L Y	0-15	260124ECND	26 □ 224ECND	26 □ 324ECND	26 □ 424ECND
	0-20	260124ECNG	26 □ 224ECNG	26 □ 324ECNG	26 □ 424ECNG
	0-25	260124ECNJ	26 □ 224ECNJ	26 □ 324ECNJ	26 □ 424ECNJ
	0-30	260124ECNL	26 □ 224ECNL	26 □ 324ECNL	26 □ 424ECNL
	0-50	260124ECNT	26 □ 224ECNT	26 □ 324ECNT	26 □ 424ECNT
	0-75	260124ECPB	26 □ 224ECPB	26 □ 324ECPB	26 □ 424ECPB
	0-100	260124ECPK	26 □ 224ECPK	26 □ 324ECPK	26 □ 424ECPK
	0-150	260124ECPZ	26 □ 224ECPZ	26 □ 324ECPZ	26 □ 424ECPZ
	0-200	260124ECRL	26 □ 224ECRL	26 □ 324ECRL	26 □ 424ECRL
	0-300	260124ECRX	26 □ 224ECRX	26 □ 324ECRX	26 □ 424ECRX
	0-500	260124ECSF	26 □ 224ECSF	26 □ 324ECSF	26 □ 424ECSF
	0-750	260124ECSM	26 □ 224ECSM	26 □ 324ECSM	26 □ 424ECSM
	0-1000	260124ECSS	26 □ 224ECSS	26 □ 324ECSS	26 □ 424ECSS
	0-1200	260124ECSV	26 □ 224ECSV	26 □ 324ECSV	26 □ 424ECSV
	0-1500	260124ECTC	26 □ 224ECTC	26 □ 324ECTC	26 □ 424ECTC
0-2000	260124ECTM	26 □ 224ECTM	26 □ 324ECTM	26 □ 424ECTM	

### DC AMMETERS – ZERO LEFT, 100mV SHUNT RATED (LEAD RES. RANGE: 0.4-0.8Ω)\*

S O N L Y	0-75	260124GBP	26 □ 224GBP	26 □ 324GBP	26 □ 424GBP
	0-100	260124GBP	26 □ 224GBP	26 □ 324GBP	26 □ 424GBP
	0-150	260124GBPZ	26 □ 224GBPZ	26 □ 324GBPZ	26 □ 424GBPZ
	0-200	260124GBRL	26 □ 224GBRL	26 □ 324GBRL	26 □ 424GBRL
	0-300	260124GBRX	26 □ 224GBRX	26 □ 324GBRX	26 □ 424GBRX
	0-500	260124GBSF	26 □ 224GBSF	26 □ 324GBSF	26 □ 424GBSF
	0-750	260124GBSM	26 □ 224GBSM	26 □ 324GBSM	26 □ 424GBSM
	0-1000	260124GBSS	26 □ 224GBSS	26 □ 324GBSS	26 □ 424GBSS
	0-1200	260124GBSV	26 □ 224GBSV	26 □ 324GBSV	26 □ 424GBSV
	0-1500	260124GBTC	26 □ 224GBTC	26 □ 324GBTC	26 □ 424GBTC
	0-2000	260124GBTM	26 □ 224GBTM	26 □ 324GBTM	26 □ 424GBTM

### DC AMMETERS – ZERO-CENTER, SELF-CONTAINED

1-0-1	260101LALA	26 □ 201LALA	26 □ 301LALA	26 □ 401LALA
3-0-3	260101LJLJ	26 □ 201LJLJ	26 □ 301LJLJ	26 □ 401LJLJ
5-0-5	260101LSLS	26 □ 201LSLS	26 □ 301LSLS	26 □ 401LSLS
10-0-10	260101MTMT	26 □ 201MTMT	26 □ 301MTMT	26 □ 401MTMT
15-0-15	—	26 □ 201NDND	26 □ 301NDND	26 □ 401NDND
25-0-25	—	26 □ 201NJNJ	26 □ 301NJNJ	26 □ 401NJNJ
50-0-50	—	26 □ 201NTNT	26 □ 301NTNT	26 □ 401NTNT

### DC AMMETERS – ZERO-CENTER, 50mV, SHUNT RATED (LEAD RES. RANGE: .05-.07Ω)\*

S O N L Y	15-0-15	260125ECND	26 □ 225ECND	26 □ 325ECND	26 □ 425ECND
	25-0-25	260125ECNJ	26 □ 225ECNJ	26 □ 325ECNJ	26 □ 425ECNJ
	50-0-50	260125ECNT	26 □ 225ECNT	26 □ 325ECNT	26 □ 425ECNT
	75-0-75	260125ECPB	26 □ 225ECPB	26 □ 325ECPB	26 □ 425ECPB
	100-0-100	260125ECPK	26 □ 225ECPK	26 □ 325ECPK	26 □ 425ECPK
	200-0-200	260125ECRL	26 □ 225ECRL	26 □ 325ECRL	26 □ 425ECRL
	300-0-300	260125ECRX	26 □ 225ECRX	26 □ 325ECRX	26 □ 425ECRX
	400-0-400	260125ECSC	26 □ 225ECSC	26 □ 325ECSC	26 □ 425ECSC
	500-0-500	260125ECSF	26 □ 225ECSF	26 □ 325ECSF	26 □ 425ECSF

\*Shunts are not included. See Page 31 For 50mV Shunts.

**NOTE ON ORDERING:** The ranges and catalog numbers in this catalog refer to both surface and window mount panel meters. To specify your choice, replace the □ in the catalog number with either of the following: 0 for Surface Mount (Taut Band), 1 for Window Mount (Taut Band), 4 for Surface Mount (Pivot & Jewel) or 5 for Window Mount (Pivot & Jewel). (11/2" is only available in Surface Mount (Taut Band)).



# AC Voltmeters



Rating & Scale \ Size	1½	2½	3½	4½
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## AC VOLTMETERS — TAUT BAND, MOVING COIL: SELF-CONTAINED, RECTIFIER TYPE

0-3	260130LJLJ	26 □ 230LJLJ	26 □ 330LJLJ	26 □ 430LJLJ
0-5	260130LSLS	26 □ 230LSLS	26 □ 330LSLS	26 □ 430LSLS
0-10	260130MTMT	26 □ 230MTMT	26 □ 330MTMT	26 □ 430MTMT
0-15	260130NDND	26 □ 230NDND	26 □ 330NDND	26 □ 430NDND
0-25	260130NJNJ	26 □ 230NJNJ	26 □ 330NJNJ	26 □ 430NJNJ
0-50	260130NTNT	26 □ 230NTNT	26 □ 330NTNT	26 □ 430NTNT
0-100	260130PKPK	26 □ 230PKPK	26 □ 330PKPK	26 □ 430PKPK
0-150	260130PZPZ	26 □ 230PZPZ	26 □ 330PZPZ	26 □ 430PZPZ
0-300	260130RXRX	26 □ 230RXRX	26 □ 330RXRX	26 □ 430RXRX

## AC VOLTMETERS — TAUT BAND, MOVING COIL: TRANSFORMER RATED, 0-150V, RECTIFIER TYPE\*

SCALE	0-750	260130PZSM	26 □ 230PZSM	26 □ 330PZSM	26 □ 430PZSM
	0-1500	260130PZTC	26 □ 230PZTC	26 □ 330PZTC	26 □ 430PZTC
	0-3000	260130PZUA	26 □ 230PZUA	26 □ 330PZUA	26 □ 430PZUA

## AC VOLTMETERS — TAUT BAND, MOVING COIL: EXPANDED SCALE, RECTIFIER TYPE

105-125	Accuracy ±0.5%FS ±0.5%FS ±1.0%FS ±1.0%FS	26 □ 237PTPT	26 □ 337PTPT	26 □ 437PTPT
210-250		26 □ 237RRRR	26 □ 337RRRR	26 □ 437RRRR
95-135		26 □ 237PJPJ	26 □ 337PJPJ	26 □ 437PJPJ
190-270		26 □ 237RKRR	26 □ 337RKRR	26 □ 437RKRR

## AC VOLTMETERS — IRON VANE, PIVOT & JEWEL: SELF-CONTAINED, 60Hz\*

0-500		26 0244LJLJ	26 0344LJLJ	26 0444LJLJ
0-5		26 0244LSLS	26 0344LSLS	26 0444LSLS
0-10		26 0244MTMT	26 0344MTMT	26 0444MTMT
0-15		26 0244NDND	26 0344NDND	26 0444NDND
0-30		26 0244NLNL	26 0344NLNL	26 0444NLNL
0-50		26 0244NTNT	26 0344NTNT	26 0444NTNT
0-100		26 0244PKPK	26 0344PKPK	26 0444PKPK
0-150		26 0244PZPZ	26 0344PZPZ	26 0444PZPZ
0-300		26 0244RXRX	26 0344RXRX	26 0444RXRX
0-500		26 0244SFSF	26 0344SFSF	26 0444SFSF
0-600		26 0244SJSJ	26 0344SJSJ	26 0444SJSJ

## AC VOLTMETERS — IRON VANE, PIVOT & JEWEL: TRANSFORMER RATED 0-150 VOLTS, 60Hz\*

SCALE	0-600	26 □ 244PZSJ	26 □ 344PZSJ	26 □ 444PZSJ
	0-750	26 □ 244PZSM	26 □ 344PZSM	26 □ 444PZSM
	0-3K	26 □ 244PZVJ	26 □ 344PZVJ	26 □ 444PZVJ

\*Iron Vane, Pivot & Jewel use only 0 for Surface Mount, 1 for Window Mount. Also, For Transformer Rated Voltmeters See Page 31 For Transformers.



# AC Ammeters

Rating & Scale \ Size	1½	2½	3½	4½
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## AC MILLIAMMETERS — TAUT BAND, MOVING COIL: SELF-CONTAINED, RECTIFIER TYPE

0-1	260110FAFA	26 □ 210FAFA	26 □ 310FAFA	26 □ 410FAFA
0-5	260110FXFX	26 □ 210FXFX	26 □ 310FXFX	26 □ 410FXFX
0-10	260110GZGZ	26 □ 210GZGZ	26 □ 310GZGZ	26 □ 410GZGZ
0-25	260110HJHJ	26 □ 210HJHJ	26 □ 310HJHJ	26 □ 410HJHJ
0-50	260110HYHY	26 □ 210HYHY	26 □ 310HYHY	26 □ 410HYHY
0-100	260110JRJR	26 □ 210JRJR	26 □ 310JRJR	26 □ 410JRJR
0-200	—	26 □ 210KAKA	26 □ 310KAKA	26 □ 410KAKA

## AC Ammeters Cont'd

Rating & Scale \ Size	1½	2½	3½	4½
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### AC AMMETERS – TAUT BAND, MOVING COIL: SELF-CONTAINED, RECTIFIER TYPE, 60Hz±10%

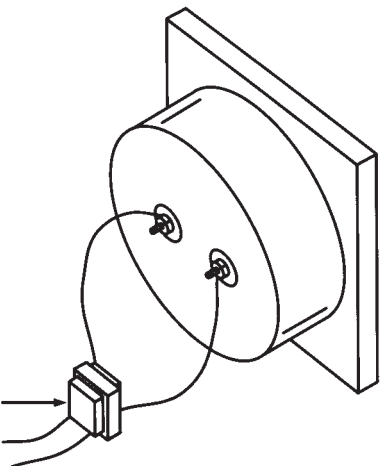
0-1 0-1.5 0-2 0-3 0-5		26□210LALA 26□210LCLC 26□210LELE 26□210LJLJ 26□210LSLS	26□310LALA 26□310LCLC 26□310LELE 26□310LJLJ 26□310LSLS	26□410LALA 26□410LCLC 26□410LELE 26□410LJLJ 26□410LSLS
0-10 0-15 0-20 0-25 0-30		26□210MTMT 26□210NDND 26□210NGNG 26□210NJNJ 26□210NLNL	26□310MTMT 26□310NDND 26□310NGNG 26□310NJNJ 26□310NLNL	26□410MTMT 26□410NDND 26□410NGNG 26□410NJNJ 26□410NLNL

### AC AMMETERS – TAUT BAND, MOVING COIL: TRANSFORMER RATED, 0-5A, RECTIFIER TYPE, 60Hz±10%

0-50 0-60 0-75 0-100 0-150 0-200	S C A L E	26□210LSNT 26□210LSNW 26□210LSPB 26□210LSPK 26□210LSPZ 26□210LSRL	26□310LSNT 26□310LSNW 26□310LSPB 26□310LSPK 26□310LSPZ 26□310LSRL	26□410LSNT 26□410LSNW 26□410LSPB 26□410LSPK 26□410LSPZ 26□410LSRL
0-300 0-400 0-500 0-600 0-800		26□210LSRX 26□210LSSC 26□210LSSF 26□210LSSJ 26□210LSSN	26□310LSRX 26□310LSSC 26□310LSSF 26□310LSSJ 26□310LSSN	26□410LSRX 26□410LSSC 26□410LSSF 26□410LSSJ 26□410LSSN
0-1000 0-1500 0-2000		26□210LSSS 26□210LSTC 26□210LSTM	26□310LSSS 26□310LSTC 26□310LSTM	26□410LSSS 26□410LSTC 26□410LSTM

### AC AMMETERS – TAUT BAND, MOVING COIL: SEPARATE TRANSFORMERS, RECTIFIER TYPE, 60Hz±10%

**NOTE ON ORDERING:** The ranges and catalog numbers in this catalog refer to both surface and window mount panel meters. To specify your choice, replace the □ in the catalog number with either of the following: 0 for Surface Mount (Taut Band), 1 for Window Mount (Taut Band), 4 for Surface Mount (Pivot & Jewel) or 5 for Window Mount (Pivot & Jewel). (1½" is only available in Surface Mount (Taut Band).

0-1 0-1.5 0-2 0-3 0-5	260110LALA 260110LCLC 260110LELE 260110LJLJ 260110LSLS	} EACH METER IS SUPPLIED WITH AN EXTERNAL C.T. WITH INPUT RANGE MATCHING FULL SCALE INPUT.	
0-10 0-15 0-20 0-25 0-30	260110MTMT 260110NDND 260110NGNG 260110NJNJ 260110NLNL		
0-50 0-60 0-75 0-100 0-150	260110LSNT 260110LSNW 260110LSPB 260110LSPK 260110LSPZ	} METER SUPPLIED WITH 5 AMP EXTERNAL C.T. — USER MUST PURCHASE ADDITIONAL C.T. OF PROPER SCALE RANGE TO CONNECT TO EXT. 5 AMP C.T. SUPPLIED.	
0-200 0-300 0-400 0-500 0-600	260110LSRL 260110LSRX 260110LSSC 260110LSSF 260110LSSJ		
0-800 0-1000 0-1500 0-2000	260110LSSN 260110LSSS 260110LSTC 260110LSTM		

### AC MILLIAMMETERS – IRON VANE, PIVOT & JEWEL: SELF-CONTAINED, 50-400Hz\*

0-10 0-25 0-50 0-100 0-250 0-500		26 0240GZGZ 26 0240HJHJ 26 0240HYHY 26 0240JRJR 26 0240KDKD 26 0240KMKM	26 0340GZGZ 26 0340HJHJ 26 0340HYHY 26 0340JRJR 26 0340KDKD 26 0340KMKM	26 0440GZGZ 26 0440HJHJ 26 0440HYHY 26 0440JRJR 26 0440KDKD 26 0440KMKM
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# AC Ammeters Cont'd

Rating & Scale \ Size	1½	2½	3½	4½
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## AC AMMETERS – IRON VANE, PIVOT & JEWEL: SELF-CONTAINED, 50-400Hz\*

0-1		260240LALA	260340LALA	260440LALA
0-1.5		260240LCLC	260340LCLC	260440LCLC
0-2		260240LELE	260340LELE	260440LELE
0-3		260240LJLJ	260340LJLJ	260440LJLJ
0-5		260240LSLS	260340LSLS	260440LSLS
0-10		260240MTMT	260340MTMT	260440MTMT
0-15		260240NDND	260340NDND	260440NDND
0-20		260240NGNG	260340NGNG	260440NGNG
0-25		260240NJNJ	260340NJNJ	260440NJNJ
0-30		260240NLNL	260340NLNL	260440NLNL
0-50		260240NTNT	260340NTNT	260440NTNT

## AC AMMETERS – IRON VANE, PIVOT & JEWEL: TRANSFORMER RATED, 0-5 AMPERES, 50-400Hz\*

0-10		260240LSMT	260340LSMT	260440LSMT
0-15		260240LSND	260340LSND	260440LSND
0-20		260240LSNG	260340LSNG	260440LSNG
0-30		260240LSNL	260340LSNL	260440LSNL
0-40		260240LSNP	260340LSNP	260440LSNP
0-50		260240LSNT	260340LSNT	260440LSNT
0-75		260240LSPB	260340LSPB	260440LSPB
0-80		260240LSPD	260340LSPD	260440LSPD
0-100	S C A L E	260240LSPK	260340LSPK	260440LSPK
0-150		260240LSPZ	260340LSPZ	260440LSPZ
0-200		260240LSRL	260340LSRL	260440LSRL
0-300		260240LSRX	260340LSRX	260440LSRX
0-400		260240LSSC	260340LSSC	260440LSSC
0-500		260240LSSF	260340LSSF	260440LSSF
0-600		260240LSSJ	260340LSSJ	260440LSSJ
0-800		260240LSSN	260340LSSN	260440LSSN
0-1K		260240LSVA	260340LSVA	260440LSVA
0-1.2K		260240LSVB	260340LSVB	260440LSVB
0-1.5K		260240LSVC	260340LSVC	260440LSVC
0-2.0K		260240LSVE	260340LSVE	260440LSVE
0-3.0K		260240LSVJ	260340LSVJ	260440LSVJ

\*Iron Vane, Pivot & Jewel use only 0 for Surface Mount.



# Frequency Meters (For 480V AC input contact factory)

Voltage	Center Frequency	Scale Hertz	1½	2½	3½	4½
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## FREQUENCY METERS – TAUT BAND OR PIVOT & JEWEL: SELF-CONTAINED

120	50	45-55		26□250AGAG	26□350AGAG	26□450AGAG
120	55	45-65		26□250AJAJ	26□350AJAJ	26□450AJAJ
120	60	55-65		26□250ANAN	26□350ANAN	26□450ANAN
120	400	380-420		26□250BKBK	26□350BKBK	26□450BKBK
208	50	45-55		26□250GGGG	26□350GGGG	26□450GGGG
208	55	45-65		26□250GJGJ	26□350GJGJ	26□450GJGJ
208	60	55-65		26□250GNGN	26□350GNGN	26□450GNGN
208	400	380-420		26□250HKHK	26□350HKHK	26□450HKHK
240	50	45-55		26□250DGDG	26□350DGDG	26□450DGDG
240	60	55-65		26□250DNDN	26□350DNDN	26□450DNDN
240	400	380-420		26□250EKEK	26□350EKEK	26□450EKEK
240	55	45-65		26□250DJDJ	26□350DJDJ	26□450DJDJ

**NOTE ON ORDERING:** The ranges and catalog numbers in this catalog refer to both surface and window mount panel meters. To specify your choice, replace the □ in the catalog number with either of the following: 0 for Surface Mount (Taut Band), 1 for Window Mount (Taut Band), 4 for Surface Mount (Pivot & Jewel) or 5 for Window Mount (Pivot & Jewel).