

## Yokogawa Power Factor, Frequency & Synchroscope Meters

- Rugged, Durable Construction
- No Shadows on Scale
- Accurate and Readable, Even from Sharp Angles
- Accurate to Within  $\pm 1\%$  of Full Scale
- Attractive, Uncluttered Scales
- Weathertight Construction Ideal for Adverse Conditions (AB-40)
- Easy to Read up to 30 Feet Away (AB-16)
- Taut-Band Suspension Except Synchrosopes


**AB-16**

**AB-40**

### ORDERING INFORMATION

#### Power Factor

Amperes	Volts	Scale	AB-40 Cat. No.	AB-16 Cat. No.
<b>Single-Phase 2 Wire 60 Hz</b>				
5	120	.5-1-.5	103 412 FCAD	121412 FCAD
<b>3-Phase 3 &amp; 4 Wire, 50 &amp; 60 Hz, Balanced System Only</b>				
5	120	.5-1-.5	103 402 FCAD	121 402 FCAD
5	208*	.5-1-.5	103 402 CCAD	121 402 CCAD
5	240	.5-1-.5	103 402 FEAD	121 402 FEAD
5	480	.5-1-.5	103 402 FFAD	121 402 FFAD
5	600	.5-1-.5	103 402 FGAD	121 402 FGAD
<b>3-Phase 3 Wire, 50/60 Hz, Unbalanced Systems</b>				
5	120	.5-1-.5	103 462 FCAD	—
5	240	.5-1-.5	103 462 FEAD	—
<b>3-Phase 4-Wire, 50/60 Hz, Unbalanced Systems</b>				
5	120+	.5-1-.5	103 472 FCAD	—
5	208+	.5-1-.5	103 472 CCAD	—
5	240++	.5-1-.5	103 472 FEAD	—

#### Frequency Meters, 120V Rated

Scale (Hz)	Center Freq, Hz	AB-40 Cat. No.	AB-16 Cat. No.
45-55	50	103 372 AGAG	121 372 AGAG
45-65	55	103 372 AJAJ	121 372 AJAJ
48-52	50	103 372 AKAK	121 372 AKAK
50-70	60	103 372 ALAL	121 372 ALAL
55-65	60	103 372 ANAN	121 372 ANAN
58-62	60	103 372 ATAT	121 372 ATAT
59-61	60	103 372 ASAS	121 372 ASAS
350-450	400	103 372 BHBH	121 372 BHBH
390-410	400	103 372 BLBL	121 372 BLBL

#### Synchrosopes—Pivot and Jewel

Scale	Normal Freq.	VAC	AB-40 Cat. No.	AB-16 Cat. No.
Slow-Fast	50/60	120	106 452 ADAA	120 452 ADAA
Slow-Fast	50/60	240	106 452 DDAA	120 452 DDAA
Slow-Fast	400	120	106 452 ACAA	120 452 ACAA

\* Line to line 208V (120V line to neutral)

+ Line to line

++ Line to neutral

### SPECIFICATIONS

#### In accordance with ANSI Specifications C39.1

Accuracy	$\pm 1\%$ of FS basic accuracy class			
Rectifier Instruments	$\pm 1\%$ @ 25°C calibrated on sine wave			
Power Factor Meters	$\pm 1\%$ of scale length			
	Balanced system			
	(20-100% rated current)			
	Unbalanced system			
	( $\pm 3\%$ of scale length)			
Frequency Meters	45 Hz-55 Hz, $\pm 0.15$ Hz			
	55 Hz-66 Hz, $\pm 0.15$ Hz			
	58 Hz-62 Hz, $\pm 0.093$ Hz			
	350 Hz-450 Hz, $\pm 1.5$ Hz			
Operating Temperature Range	0-40°C (32°F-104°F)			
Dielectric Level	2,300 VAC for 1 minute between circuit and case			
Overload Rating	Voltmeter or potential coils, 1.2x continuous AC ammeters, 2x continuous, 10x for 1 second. Current coils other than AC ammeters, 1.5x continuous, 10x for 1 second			
Response Time	Approx. 2.5 seconds (except AB/DB-16)			
Position of Use	Vertical (scale)			
Full Scale Deflection Angle	250°			
Case Size	Model	Size (H x W x D)	Barrel (Cutout)	Scale Length
4 $\frac{1}{2}$ "	AB-14	4.33" x 4.33" x 6.75"	4.03"	6.9"
4 $\frac{1}{2}$ "	AB-40	4.33" x 4.33" x 6.75"	4.03"	6.9"
8 $\frac{1}{2}$ "	AB-16	8.69" x 8.69" x 6.75"	4.03"	13.8"