

# Power Factor, Frequency & Synchroscope Meters

## Yokogawa AB40 Replacements

### MCS Series

- Rugged, Durable Construction
- Readable Even from Sharp Angles
- 1% Accuracy Class
- Metal Case
- UL Recognition (optional)



**MCS**



### ORDERING INFORMATION

#### Power Factor

Amperes	Volts (L-L)	Scale	Cat. No.
<b>Single-Phase 2 Wire 60 Hz</b>			
5	120	.5-1-.5	103 412 FCAD

#### 3-Phase 3 & 4 Wire, 50 & 60 Hz, Balanced System Only

5	120	.5-1-.5	103 402 FCAD
5	208	.5-1-.5	103 402 FDAD
5	240	.5-1-.5	103 402 FEAD
5	480	.5-1-.5	103 402 FFAD
5	600	.5-1-.5	103 402 FGAD

#### Frequency Meters, 120V Rated

Scale (Hz)	Center Freq, Hz	Cat. No.	Accuracy
45-55	50	103 372 AGAG	±0.15 Hz
45-65	55	103 372 AJAJ	±0.25 Hz
48-52	50	103 372 AKAK	±0.08 Hz
50-70	60	103 372 ALAL	±0.25 Hz
55-65	60	103 372 ANAN	±0.15 Hz
58-62	60	103 372 ATAT	±0.08 Hz
59-61	60	103 372 ASAS	±0.047 Hz
350-450	400	103 372 BHBH	±1.3 Hz
390-410	400	103 372 BLBL	±0.492 Hz

#### Synchrosopes

Scale	Normal Freq, Hz	VAC	Cat. No.
Slow-Fast	50	120	106 452 ABAA
Slow-Fast	60	120	106 452 AAAA

### SPECIFICATIONS

In accordance with ANSI Specifications C39.1

#### Accuracy

Power Factor Meters ±1% of fiducial value from 40-120% of rated current

Frequency Meters see table

Synchrosopes ±1% of scale length

Operating Temperature Range 0-40°C (32°F-104°F)

Dielectric Level 2,300 VAC for 1 minute between circuit and case

Overload Rating  
Voltage coils: 1.2x continuous.  
Current coils: 1.2x continuous, 10x for 0.5 seconds.  
Frequency meters: 1.2x continuous

Response Time 3 seconds maximum

Position of Use Vertical (scale)

Full Scale Deflection Angle 250° (360° for synchrosopes)

Barrel (cutout) 4.03"

Full Scale Length 6.9" (except synchrosopes)

#### Size (H x W x Depth)

Power Factor 4.33" x 4.33" x 3.25"

Frequency 4.33" x 4.33" x 4.5"

Synchroscope 4.33" x 4.33" x 4.5"