

## Yokogawa AC Voltage Switchboard Meters

### AB Series

- 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
- High-Shock Design Meets MIL-M-16034A and MIL-S-901 (AB-14)
- Weathertight Construction Ideal for Adverse Conditions (AB-40)
- Easy to Read Up to 30 Feet Away (AB-16)
- Taut-Band Suspension


**AB-40** ▲

**AB-16** ▲

Photos not to scale

### ORDERING INFORMATION

#### Self-Contained, 50/60 Hz

| Rating (volts) | Scale Volts | AB-14 Cat. No. | AB-40 Cat. No. | AB-16 Cat. No. |
|----------------|-------------|----------------|----------------|----------------|
| 150            | 0-150       | 101 023 PZPZ   | 103 021 PZPZ   | 121 021 PZPZ   |
| 250            | 0-250       | 101 023 RSRP   | 103 021 RSRP   | 121 021 RSRP   |
| 300            | 0-300       | 101 023 RXRX   | 103 021 RXRX   | 121 021 RXRX   |
| 500            | 0-500       | 101 023 SFSF   | 103 021 SFSF   | 121 021 SFSF   |
| 600            | 0-600       | 101 023 SJS    | 103 021 SJSJ   | 121 021 SJSJ   |
| 750*           | 0-750*      | **             | 103 021 SMSM   | 121 021 SMSM   |

#### Transformer-Rated, 50/60 Hz

|     |         |              |              |              |
|-----|---------|--------------|--------------|--------------|
| 150 | 0-300   | 101 023 PZRX | 103 021 PZRX | 121 021 PZRX |
| 150 | 0-600   | 101 023 PZSJ | 103 021 PZSJ | 121 021 PZSJ |
| 150 | 0-750   | 101 023 PZSM | 103 021 PZSM | 121 021 PZSM |
| 150 | 0-3000  | 101 023 PZUA | 103 021 PZUA | 121 021 PZUA |
| 150 | 0-5250  | 101 023 PZUL | 103 021 PZUL | 121 021 PZUL |
| 150 | 0-9000  | 101 023 PZUY | 103 021 PZUY | 121 021 PZUY |
| 150 | 0-15kV  | 101 023 PZWZ | 103 021 PZWZ | 121 021 PZWZ |
| 150 | 0-18kV  | 101 023 PZXE | 103 021 PZXE | 121 021 PZXE |
| 150 | 0-45kV  | 101 023 PZXU | 103 021 PZXU | 121 021 PZXU |
| 150 | 0-150kV | 101 023 PZYR | 103 021 PZYR | 121 021 PZYR |
| 250 | 0-600   | 101 023 RSSJ | 103 021 RSS  | 121 021 RSSJ |

#### Expanded Scale Self-Contained, 50/60 Hz

|         |         |    |              |              |
|---------|---------|----|--------------|--------------|
| 110-130 | 110-130 | ** | 103 071 PNPN | 121 071 PNPN |
|---------|---------|----|--------------|--------------|

#### Expanded Scale Transformer-Rated, 50/60 Hz

|         |   |    |               |               |
|---------|---|----|---------------|---------------|
| 110-130 | + | ** | 103 071 PN..+ | 121 071 PN..+ |
|---------|---|----|---------------|---------------|

#### Rectifier-Type 1.5% 20-3000 Hz

|     |       |    |   |   |
|-----|-------|----|---|---|
| 15  | 0-15  | ** | + | + |
| 30  | 0-30  | ** | + | + |
| 150 | 0-150 | ** | + | + |
| 150 | +     | ** | + | + |
| 300 | 0-300 | ** | + | + |
| 600 | 0-600 | ** | + | + |

#### Ground-Detector Type-Single-Phase 50/60 Hz

|     |       |    |               |               |
|-----|-------|----|---------------|---------------|
| 150 | 0-150 | ** | 103 021 PZPZ  | 121 021 PZPZ  |
| 150 | +     | ** | 103 021 PZ..+ | 121 021 PZ..+ |
| 300 | 0-300 | ** | 103 021 RXRX  | 121 021 RXRX  |
| 600 | 0-600 | ** | 103 021 SJSJ  | 121 021 SJSJ  |

- \* UL Version Not Available
- \*\* High Stock Version Not Available
- + Order by Description. Specify P.T. (Potential Transformer) Ratio if Used, and Scale Desired.

### SPECIFICATIONS

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

|                             |   |
|-----------------------------|---|
| Accuracy                    | $\pm 1\%$ of FS basic accuracy class  |
| Rectifier Instruments       | $\pm 1\frac{1}{2}\%$ @ 25°C calibrated on sine wave   |
| Operating Temperature Range | 0-40°C (32°F-104°F)   |
| Dielectric Level            | 2,300VAC for 1 minute between circuit & 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-16)  |
| Position of Use             | Vertical (scale)  |
| Full Scale Deflection Angle | 250°  |
| Case Size                   | 4 $\frac{1}{4}$ "   4 $\frac{1}{4}$ "   8 $\frac{1}{4}$ "   |
| Model                       | AB-14   AB-40   AB-16   |
| Size (H x W x D)            | 4.33" x 4.33" x 4.85"   8.69" x 8.69" x 4.85"   |
| Barrel (cutout)             | 4.03"   |
| Full Scale Length           | 6.9"   13.8"  |

### OPTIONS

- Custom Scaling
- Nonstandard Ranges
- Adjustable Potentiometer (Voltmeters Only)
- Color Bands
- Illumination (Red or White)

#### AB-40 with Red Illumination

