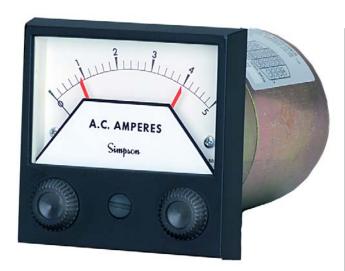
3300 Series Rugged Seal Meter Relay

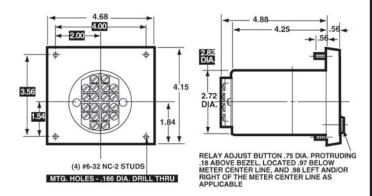




- Wide Variety of Control, Alarm, and Limit
- Calibration Not Affected by Steel Panel Mounting
- Rugged Metal Case for Rigorous Environments
- Commercially-Sealed, Moisture and Dust Proof

Dimensions

4 - 1/2"-Model 3344AIXA & 3324AIXA



1 = Panel Meter Cut-out Dimensions

Specifications

AC: ±3% of full scale; DC: ±2% F.S. Accuracy:

Annular, self-shielding Movement: Pivot and jewel Suspension: Tracking: Within 0.5% F.S. Repeatability:

Shielding: Calibration is unaffected by magnetic panel mounting

Response Time: 1.5 seconds maximum above 10mA Overload (1 sec.): AC: 7 amps; DC: 10 times F.S. Overload (Continuous): AC: 7 amps, DC: 1.5 times F.S.

Sharp clear scale. Each dial arc is calibrated to

track the specific type of movement used.

Sealed metal, plastic window Case:

50mV Voltage Drop:

Black, knife-edge Pointer: Scale Length: 4.05" (103.0mm) Net Weight: Control Point(s) 17oz (0.48kg)

Single, high limit, 0-100% of arc; double, low limit 0-

Adjustments: 95% of arc; high limit 5-100% of arc Adjustable to

within 4° of each other

Within 1% of indication Switching:

"On," "Off" difference is within 0.5% of F.S. Differential: Latching function can be enabled independently Auto/Manual Reset:

for each relay by removing jumpers on terminal

Contacts/Output Relay: DPDT relay contacts for each control point; Each

set of contacts rated at 5 amps, 120/240 VAC resistive. Frequency Response:

50-1000Hz

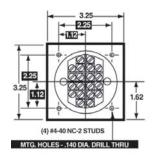
Power: 108-132 VAC, 50-400Hz Operating Temperature: +41°F to 122°F (5°C to +50°C)

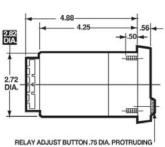
Circuit-to-Ground

Voltage: 250V rms maximum

NOTE: DC meters meet ANSI specification C-39.1

3 - 1/2"-Model 3343AIXA & 3323AIXA





.19 ABOVE BEXEL LOCATED .97 BELOW METER CENTER LINE, AND .98 LEFT AND/OR RIGHT OF THE METER CENTER LINE AS APPLICABLE



3300 Series Rugged Seal Meter Relay

Ordering Information

AC Voltmeters Rectified, Self-Shielding Movement

| | | Model | nber | | |
|-------|-----------------------|----------------------------------|-------------------|----------------------------------|-------------------|
| | Approx. Resistance | 3-1/2" Model 3343AIXA | | 4-1/2" Model 3344AIXA | |
| Range | (ohms) | Single Set point (High Limit) | Dual Set point | Single Set point (High Limit) | Dual Set point |
| 0-10 | 200 k | 21675 | 21635 | 21679 | 21639 |
| 0-150 | 3 M | 21676 | 21636 | 21680 | 21640 |
| 0-300 | 6 M | 21681 | 21641 | 21682 | 21642 |

<> Available on special order.

DC Microammeters, Self-Shielding Movement

| | | Model/Size and Catalog Number | | | | |
|-------|-----------------------|----------------------------------|-------------------|----------------------------------|-------------------|--|
| | Approx. Resistance | 3-1/2" Model 3323AIXA | | 4-1/2" Model 3324AIXA | | |
| Range | (ohms) | Single Set point (High Limit) | Dual Set point | Single Set point (High Limit) | Dual Set point | |
| 0-25 | 2 k | 21658 | 21618 | <> | <> | |
| 0-50 | 1 k | 21659 | 21619 | 21666 | 21626 | |
| 0-100 | 500 | 21660 | 21620 | 21667 | 21627 | |

<> Available on special order.

DC Milliammeters, Self-Shielding Movement

| | | Model/Size and Catalog Number | | | | |
|-------|----------------------|----------------------------------|-------------------|----------------------------------|-------------------|--|
| | Approx. | 3-1/2" Model 3323AIXA | | 4-1/2" Model 3324AIXA | | |
| Range | Resistance (ohms) | Single Set point (High Limit) | Dual Set Point | Single Set point (High Limit) | Dual Set Point | |
| 0-1 | 50 | 21661 | 21621 | 21668 | 21628 | |

DC Millivoltmeters, Self-Shielding Movement

| | | Model/Size and Catalog Number | | | | |
|--------|----------------------|----------------------------------|-------------------|----------------------------------|-------------------|--|
| | Approx. | 3-1/2" Model 3323AIXA | | 4-1/2" Model 3324AIXA | | |
| Ranges | Resistance (ohms) | Single Set point (High Limit) | Dual Set point | Single Set point (High Limit) | Dual Set point | |
| 0-50 | 1 k | 21663 | 21623 | 21670 | 21630 | |

DC Voltmeters, Self-Shielding Movement

| | | Model/ | Catalog Numb | Number | |
|--------|----------------------|----------------------------------|-------------------|----------------------------------|-------------------|
| | Approx. | 3-1/2" Mo 323AIX | | 4-1/2" M 3324AI | |
| Ranges | Resistance (ohms) | Single Set point (High Limit) | Dual Set point | Single Set point (High Limit) | Dual Set point |
| 0-1 | 20 k | 21664 | 21624 | 21671 | 21631 |
| 0-50 | 1 M | 21665 | 21625 | 21672 | 21632 |

<> Available on special order

DC Ammeters, Self-Shielding Movement

| | | Model/Size and Catalog Number | | | | |
|-------|--------------------------------|-------------------------------|-------------------|--------------------------|-------------------|--|
| | 3-1/2" Mo 3323AIX | | | 4-1/2" Model 3324AIXA | | |
| Range | Approx. Impedance (ohms) | Single Set point (High | Dual Set Point | Single Set Point | Dual Set Point | |
| 0-5 | .01 | 21662 | 21622 | 21669 | 21629 | |

AC Ammeters Rectifier, Self-Shielding Movement

| | | Model/Size and Catalog Number | | | | |
|-------|-------------------------------|-------------------------------|-------------------|---------------------------|-------------------|--|
| | | 3-1/2" Mo 3343AI | | 4-1/2" M 3344AI | | |
| Range | Approx. Impedance ange (ohms) | Single Set point (High | Dual Set Point | Single Set point (High | Dual Set Point | |
| 0-5 | .01 | 21673 | 21633 | 21677 | 21637 | |

Percent Motor Load Self-Shielding Movement

| Scale | Range F.S. | Catalog Number Single Set point (High Limit) | Catalog Number Double Set point | Model |
|----------|------------|--|------------------------------------|------------------|
| 0-150%* | 10 VAC | 21684* | 21644* | 3344 AIXA 4-1/2" |
| 0-150%** | 5 amp AC | 21683** | 21643** | 3344 AIXA 4-1/2" |
| 0-150%** | 5 amp AC | 35096** | 35097** | 3343 AIXA 3-1/2" |

^{*} Use with Model 186 current transformers, pages C4-C6

Temperature Meters

Specifications

Accuracy: ±2% F.S.

Movement: Annular, self-shielding Suspension: Pivot and jewel

Single, 0-100% of arc; double, low limit 0-95% of Adjustments:

arc; high limit, 5-100% of arc, Adjustable to within 4° of each other.

With 1% of indication

Switching: Differential: "On", "Off" difference is within 0.5% of F.S. Auto/Manual Reset:

Latching function can be enabled independently for each relay by removing jumpers on terminal

Contacts/Output Relays: DPDT relay contacts for each control point ex-

cept motor load types. SPDT low point. Each set of contacts rated at 5 amps, 115 VAC

Tracking: Repeatability: ±3% 2%

Shielding: Calibration is unaffected by magnetic panel mounting

Response Time: Overload (1 sec.): 1.5 seconds maximum 10 times F.S.

Overload (Continuous):

1.5 times F.S.

Dial: Sharp clear scale. Each dial arc is calibrated to

track the specific type of movement used.

Case: Sealed metal, plastic window

Voltage Drop: 50mV

Black, knife-edge Pointer: Scale Length: 4.05" (103.0mm) Net Weight: 17oz (0.48kg)

Frequency Response: 50-1000 Hz

Power: 108-132 VAC, 50-400 Hz Operating Temperature: -4°F to +149°F (-20°C to +65°C)

Circuit to ground voltage: 250 RMS maximum

Ordering Information

| | Thermocouple | Catalog Number Model# 3324 AIXA 4 - 1/2" | |
|------------------------------|--------------|---|-------|
| Temperature Range | Type | SSP | DSP |
| 0 to 300°F (0°C to +149°C) | | 21651 | 21611 |
| 0 to 500°F (0°C to +260°C) | Type J | 21652 | 21612 |
| 0 to 750°F (0°C to +399°C) | .,,,,,, | 21653 | 21613 |
| 0 to 1000°F (0°C to +538°C) | | 21654 | 21614 |
| 0 to 1500°F (0°C to +815°C) | | 21655 | 21615 |
| 0 to 2000°F (0°C to +1093°C) | Tuno K | 21656 | 21616 |
| 0 to 2500°F (0°C to +1371°C) | Type K | 21657 | 21617 |

Thermocouples are not supplied. Available separately from Accessory Section, page

^{**} Use with current transformers, page C4