3300 Series Rugged Seal Meter Relay



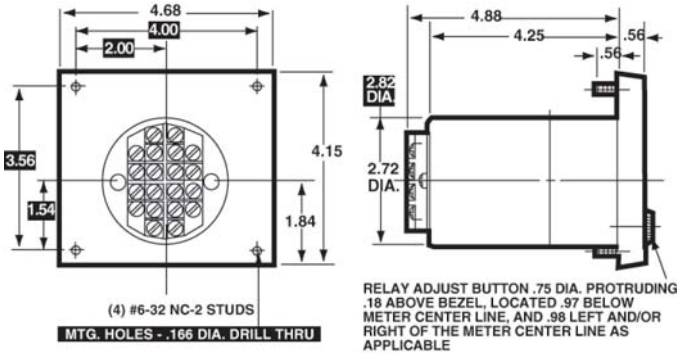
- ***Wide Variety of Control, Alarm, and Limit Use***
- ***Calibration Not Affected by Steel Panel Mounting***
- ***Rugged Metal Case for Rigorous Environments***
- ***Commercially-Sealed, Moisture and Dust Proof***

Specifications

Accuracy:	AC: ±3% of full scale; DC: ±2% F.S.
Movement:	Annular, self-shielding
Suspension:	Pivot and jewel
Tracking:	±3%
Repeatability:	Within 0.5% F.S.
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.
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
Pointer:	Black, knife-edge
Scale Length:	4.05" (103.0mm)
Net Weight:	17oz (0.48kg)
Control Point(s) Adjustments:	Single, high limit, 0-100% of arc; double, low limit 0-95% of arc; high limit 5-100% of arc Adjustable to within 4° of each other
Switching:	Within 1% of indication
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 block
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

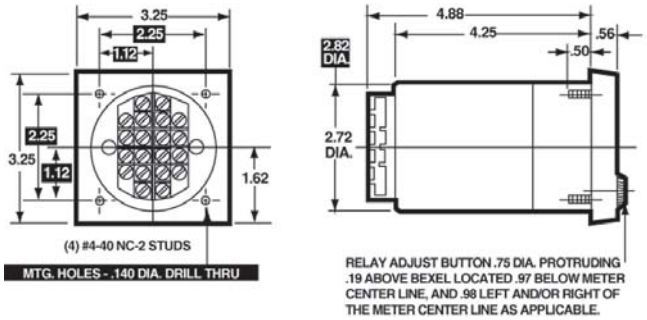
Dimensions

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



1 = Panel Meter Cut-out Dimensions

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



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3300 Series Rugged Seal Meter Relay

Ordering Information

AC Voltmeters Rectified, Self-Shielding Movement

Range	Approx. Resistance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3343AIXA		4-1/2" Model 3344AIXA	
		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

Range	Approx. Resistance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3323AIXA		4-1/2" Model 3324AIXA	
		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

Range	Approx. Resistance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3323AIXA		4-1/2" Model 3324AIXA	
		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

Ranges	Approx. Resistance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3323AIXA		4-1/2" Model 3324AIXA	
		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

Ranges	Approx. Resistance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 323AIXA		4-1/2" Model 3324AIXA	
		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

Range	Approx. Impedance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3323AIXA		4-1/2" Model 3324AIXA	
		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

Range	Approx. Impedance (ohms)	Model/Size and Catalog Number			
		3-1/2" Model 3343AIXA		4-1/2" Model 3344AIXA	
		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
** Use with current transformers, page C4

Temperature Meters

Specifications

Accuracy: ±2% F.S.
Movement: Annular, self-shielding
Suspension: Pivot and jewel
Adjustments: Single, 0-100% of arc; double, low limit 0-95% of arc; high limit, 5-100% of arc, Adjustable to within 4° of each other.
Switching: With 1% of indication
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 block.
Contacts/Output Relays: DPDT relay contacts for each control point except motor load types. SPDT low point. Each set of contacts rated at 5 amps, 115 VAC
Tracking: ±3%
Repeatability: 2%
Shielding: Calibration is unaffected by magnetic panel mounting

Response Time: 1.5 seconds maximum
Overload (1 sec.): 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
Pointer: Black, knife-edge
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
Tracking: ±3%

Ordering Information

Temperature Range	Thermocouple Type	Catalog Number Model# 3324 AIXA 4 - 1/2"	
		SSP	DSP
0 to 300°F (0°C to +149°C)	Type J	21651	21611
0 to 500°F (0°C to +260°C)		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)	Type K	21655	21615
0 to 2000°F (0°C to +1093°C)		21656	21616
0 to 2500°F (0°C to +1371°C)		21657	21617

Thermocouples are not supplied. Available separately from Accessory Section, page C2

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