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

Tracking:

Dial:

Case:

Pointer:

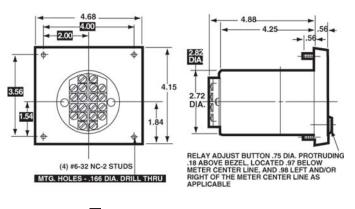
Power:

Voltage:

NOTE:

Accuracy: AC: ±3% of full scale; DC: ±2% F.S. Annular, self-shielding Movement: Pivot and jewel Suspension: +3% 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 50mV Voltage Drop: Black, knife-edge Scale Length: 4.05" (103.0mm) 17oz (0.48kg) Net Weight: Control Point(s) 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: Differential: "On," "Off" difference is within 0.5% of F.S. Latching function can be enabled independently Auto/Manual Reset: 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 108-132 VAC, 50-400Hz **Operating Temperature:** +41°F to 122°F (5°C to +50°C) Circuit-to-Ground 250V rms maximum DC meters meet ANSI specification C-39.1

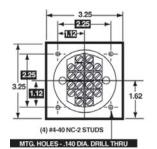
Dimensions

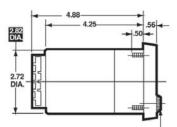


4 - 1/2"-Model 3344AIXA & 3324AIXA

1 = Panel Meter Cut-out Dimensions

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





RELAY ADJUST BUTTON .75 DIA. PROTRUDING .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/Size and Catalog Number				
	Approx. Resistance	3-1/2" Model 3343AIXA		4-1/2" Mo 3344AD		
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	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/Size and Catalog Number				
	Approx.	3-1/2" Model 323AIXA		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				
	Approx	3-1/2" Mo 3323AD				
Range	Approx. Impedance ge (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 3343AIX			4-1/2" Model 3344AIXA		
Range	Approx. Impedance (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

** Use with current transformers, page C4

Temperature Meters

Specifications

Accuracy: Movement:	±2% F.S.
Suspension:	Annular, self-shielding 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:	Within 4° of each other. With 1% of indication
Differential:	
Auto/Manual Reset:	"On", "Off" difference is within 0.5% of F.S. Latching function can be enabled independently for each relay by removing jumpers on terminal
Contacts/Output Relays:	block. 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:	±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: Frequency Response:	17oz (0.48kg)
Power:	50-1000 Hz 108-132 VAC, 50-400 Hz
	-4°F to +149°F (-20°C to +65°C)
Circuit to ground voltage:	250 RMS maximum
Tracking:	±3%

Ordering Information

	Thermocouple	Catalog Number Model# 3324 AIXA 4 - 1/2"		
Temperature Range	Туре	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)	Turner 1/	21656	21616	
0 to 2500°F (0°C to +1371°C)	Туре К	21657	21617	

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