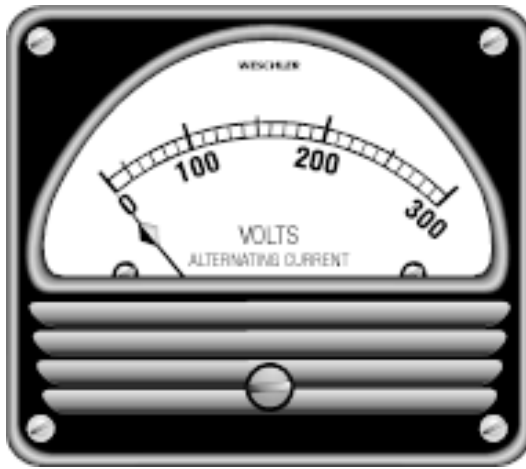
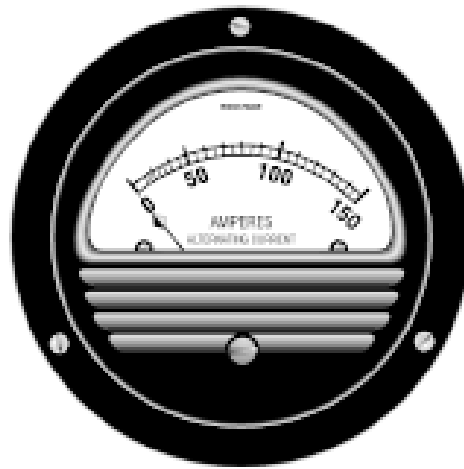


FEATURES AND SPECIFICATIONS

Ac and Dc Panel Instruments Types 351, 371-3 1/2", 4 1/2" Round and Rectangular Conventional



4 1/2" RA-371 Voltmeter



4 1/2" NA-371 Ammeter



3 1/2" RA-351 Voltmeter



3 1/2" NA-351 Ammeter

Application

Weschler Types 351 and 371 meet all performance requirements of ANSI C39.1-1981 for round and rectangular panel instruments.

They employ conventional Taut Band mechanisms enclosed in black fluted cases designed to match the appearance of Westinghouse switchboard instruments and relays, and other devices used on traditionally styled control panels.

Available Types

- Microammeters (dc, rectifier)
- Milliammeters (dc, ac, radio frequency)
- Ammeters (dc, ac, radio frequency)
- Millivoltmeters (dc)
- Voltmeters (dc, ac, rectifier)
- Frequency Meters (transducer type ac)
- Wattmeters (transducer type ac)
- Varmeters (transducer type ac)
- Motor Load Indicators (ammeter, wattmeter, in-phase current)
- Power Factor Meter (transducer type ac)

Features

High Torque To Weight Ratio: Insures rapid, accurate readings with high damping and minimum frictional effect.

Easy To Read Scales: Linear on dc. Virtually linear above 10% of full scale on ac.

Self Shielding: DC types are magnetically shielded and calibration is unaffected regardless of material or thickness of mounting panel. AC types incorporate an internal coil-shield.

Specifications

	3 1/2"		4 1/2"	
	X, C, and T 351	A 351	X, C, and T 371	A 371
Peak working voltage to ground	800 volts	800 volts	800 volts	800 volts
Dielectric test level	2600 volts	2600 volts	2600 volts	2600 volts
Type of pointer	Lance	Spade	Lance	Spade
Scale length	2.4"	2.06"	3.2"	2.8"
Scale arc	100 degrees	85 degrees	100 degrees	85 degrees
Net weight	7 oz.	8 oz.	12 oz.	12 oz.
Shipping weight	3 lbs.	3 lbs.	3 lbs.	3 lbs.

WESCHLER INSTRUMENTS

FEATURES AND SPECIFICATIONS

Ratings, Mechanisms, and Accuracy

Instrument	Case and Type Range		Range	Mechanism	Accuracy
	3 1/2"	4 1/2"			
Dc Microammeters	RX, NX 351	RX, NX 371	20 to 800	Permanent-Magnet Moving-Coil	± 2%
Dc Milliammeters	RX, NX 351	RX, NX 371	1 to 800	Permanent-Magnet Moving-Coil	± 2%
Dc Ammeters, Self-Contained	RX, NX 351	RX, NX 371	1 to 50	Permanent-Magnet Moving-Coil	± 2%
Dc Ammeters, Shunt Type	RX, NX 351	RX, NX 371	15 to 1000	Permanent-Magnet Moving-Coil	± 2%
Dc Millivoltmeters	RX, NX 351	RX, NX 371	50 to 500	Permanent-Magnet Moving-Coil	± 2
Dc Voltmeters	RX, NX 351	RX, NX 371	1 to 800	Permanent-Magnet Moving-Coil	± 2%
Ac Milliammeters	RA, NA 351	RA, NA 371	5 to 500	Moving Iron	± 2%
Ac Ammeters, Self-Contained	RA, NA 351	RA, NA 371	1 to 50	Moving Iron	± 2%
Ac Ammeters, Transformer Type	RA, NA 351	RA, NA 371	20 to 3000	Moving Iron	± 2%
Ac Voltmeters	RA, NA 351	RA, NA 371	1.5 to 800	Moving Iron	± 2%
Rectifier Microammeters	RC, NC 351	RC, NC 371	100 to 500	Rectifier with Permanent-Magnet Moving-Coil	± 2 - ±3%
Rectifier Milliammeters	RC, NC 351	RC, NC 371	1 to 10	Rectifier with Permanent-Magnet Moving-Coil	± 2 - ±3%
Rectifier Voltmeters	RC, NC 351	RC, NC 371	5 to 600	Rectifier with Permanent-Magnet Moving-Coil	± 2 - ±3%
Radio Frequency Milliammeters*	RT, NT 351	RT, NT 371	10 to 800	Permanent-Magnet Moving-Coil	± 2%
Radio Frequency Ammeters, Self-Contained*	RT, NT 351	RT, NT 371	1 to 20	Permanent-Magnet Moving-Coil	± 2%
Radio Frequency Ammeters, External Type*	RT, NT 351	RT, NT 371	Thermocouple w / Permanent-Magnet Moving-Coil	± 2%
Frequency Meters	RX, NX 351	RX, NX 371	50-60 Cy.	Permanent-Magnet Moving-Coil	± 2%
Wattmeters	RX, NX 351	RX, NX 371	1-10A 120-480 V	Permanent-Magnet Moving-Coil	± 2%
Varmeters	RX, NX 351	RX, NX 371	1-10 A 120-480 V	Permanent-Magnet Moving-Coil	± 2%
Motor Load Indicators, Ammeter Type	RA, NA 351	RA, NA 371	5 A	Moving Iron	± 2%
Motor Load Indicators, Wattmeter Type	RA, NA 351	RA, NA 371	.1-10 A	Permanent-Magnet Moving-Coil	± 2%
Motor Load Indicators, In-Phase Current Type	RX 371	5 A	Permanent-Magnet Moving-Coil	± 2%
Motor Load Indicators, Dc Ammeter Type	RX, NX 351	RX, NX 371	50 mV	Permanent-Magnet Moving-Coil	± 2%
Ac Wattmeter with External Transducer (VP2-840) ...	RX, NX 351	RX, NX 371	5 A, 120 V	Permanent-Magnet Moving-Coil	± 2%
Ac Varmeter with External Transducer (VV2-840)	RX, NX 351	RX, NX 371	5 A, 120 V	Permanent-Magnet Moving-Coil	± 2%
Frequency Meter with External Transducer (VC2-841)	RX, NX 351	RX, NX 371	60, 400 Hz	Permanent-Magnet Moving-Coil	± 2%
Power Factor Meter with External Transducer (VF2-841)	RX, NX 351	RX, NX 371	5 A, 120 V	Permanent-Magnet Moving-Coil	± 2%
Suppressed Zero Voltmeter with External Transducer (VE2-841)	RC, NC 351	RC, NC 371	110-130 V	Permanent-Magnet Moving-Coil	± 2%
Thermometer with External Transducer (VT2-841) ...	RX, NX 351	RX, NX 371	0-200 ° C	Permanent-Magnet Moving-Coil	± 2%

*Scales per FCC 73.39.

Application Data

Ac Panel Instruments

Approximate Loss (Volt-Amperes) at 60 Hz

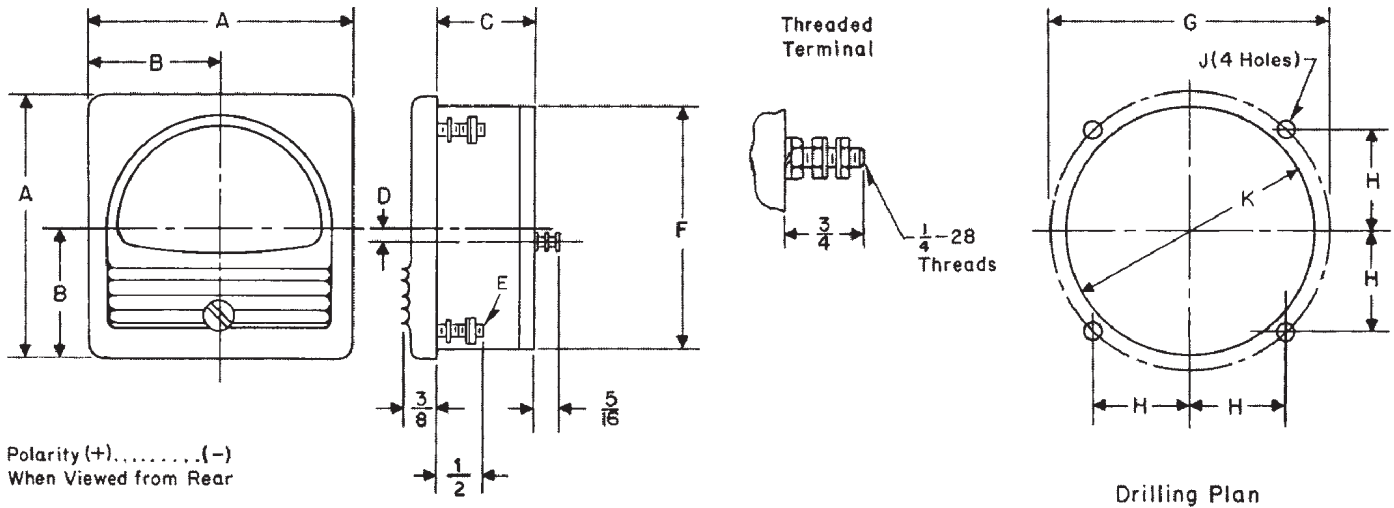
	Full Scale Rating		20/20			Conventional		
	20/20	Conventional	Full Scale Rating	20/20	Conventional	Full Scale Rating	20/20	Conventional
10-800 mA	1 vA max.	1 vA max.	2 V (moving iron)	3 vA max.	3 vA max.	100 V (moving iron)	3 vA max.	3 vA max.
1-3 A	1 vA max.	1 vA max.	3 V (moving iron)	3 vA max.	3 vA max.			
5 A	1vA max.	1 vA max.	5 V (moving iron)	3 vA max.	3 vA max.	150 V (moving iron)	3 vA max.	3 vA max.
8 A	1vA max.	1 vA max.	8 V (moving iron)	3 vA max.	3 vA max.	200 V (moving iron)	3 vA max.	3 vA max.
10 A	1 vA max.	1 vA max.	10 V (moving iron)	3 vA max.	3 vA max.	300 V (moving iron)	3 vA max.	3 vA max.
15 A	1 vA max.	1 vA max.				500 V (moving iron)	3 vA max.	3 vA max.
20 A	1 vA max.	1 vA max.	15 V (moving iron)	3 vA max.	3 vA max.	600 V (moving iron)	3 vA max.	3 vA max.
30 A	2 vA max.	2 vA max.	20 V (moving iron)	3 vA max.	3 vA max.			
50 A	2 vA max.	2 vA max.	30 V (moving iron)	3 vA max.	3 vA max.			
			50 V (moving iron)	3 vA max.	3 vA max.			
1.5 V (moving iron)	3 vA max.	3 vA max.	80 V (moving iron)	3 vA max.	3 vA max.			

FEATURES AND SPECIFICATIONS

Ac and Dc Panel Instruments

WESCHLER INSTRUMENTS

Rectangular Type (R-351, R-371) Outline Drilling Dimensions



Polarity (+).....(-)
When Viewed from Rear

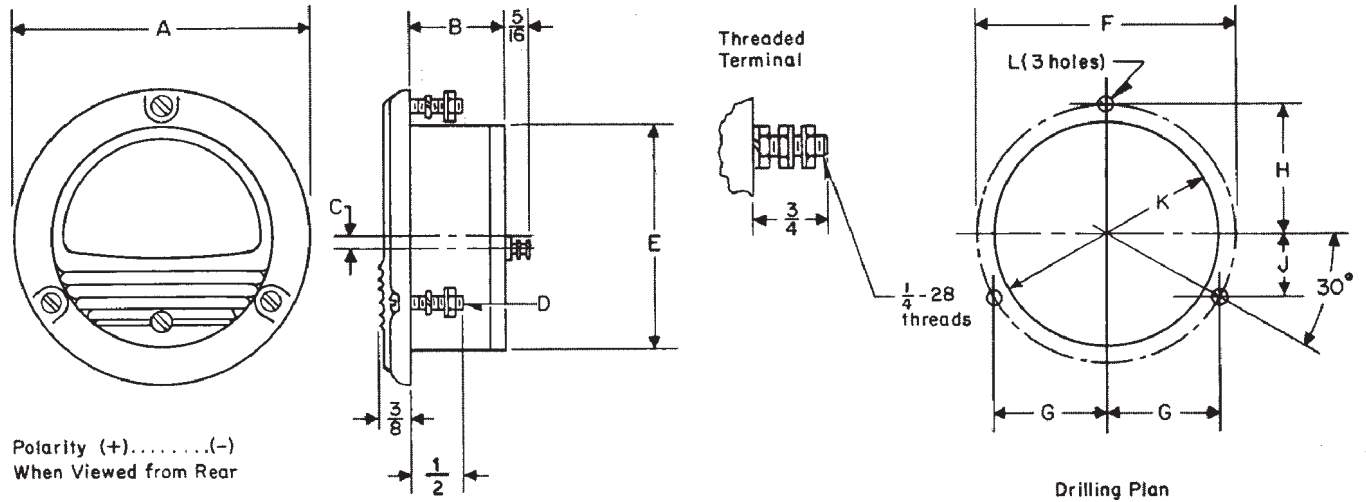
Drilling Plan

Type	Instrument	Standard Terminal*	Dimension in Inches									
			A	B	C	D	E (Thread Size)	F	G	H	J Dia.	K
RA-351	Ac Voltmeters, Ac Milliammeters, and Ac Ammeters through 20 Amps	Threaded Type	3	1 1/2	1 19/32	.170**	.112 to 40 (4-40)	2.795	3.182	1 1/8	1/8	2 13/16
RA-351	Ac Ammeters 30 through 50 Amps	Threaded Type	3	1 1/2	1 5/8	.170**	.112 to 40 (4-40)	2.795	3.182	1 1/8	1/8	2 13/16
RC-351 RX-351	All (Except Dc Millivoltmeters and Self-Contained Dc Ammeters Above 10 Amps)	Threaded Type	3	1 1/2	1 1/8	.156**	.112 to 40 (4-40)	2.795	3.182	1 1/8	1/8	2 13/16
RT-351	All Thermocouple Types	Threaded Type	3	1 1/2	1 1/4	.156**	.112 to 40 (4-40)	2.795	3.182	1 1/8	1/8	2 13/16
RX-351	Dc Millivoltmeters and Self-Contained Above 10 Amps	Threaded Type	3	1 1/2	1 1/8	.156**	.112 to 40 (4-40)	2.795	3.182	1 1/8	1/8	2 13/16
RX-371	All (Except Dc Millivoltmeters and Self-Contained Dc Ammeters Above 10 Amps)	Threaded Type	3 31/32	1 63/64	1 1/2	.156***	.138 to 32 (6-32)	3 25/32	4.240	1 1/2	3/16	3 13/16
RA-371 RT-371	All	Threaded Type	3 31/32	1 63/64	1 1/2	.156***	.138 to 32 (6-32)	3 25/32	4.240	1 1/2	3/16	3 13/16
RX-371	Dc Millivoltmeters and Self-Contained Dc Ammeters Above 10 Amps	Threaded Type	3 31/32	1 63/64	1 1/2	.156***	.138 to 32 (6-32)	3 25/32	4.240	1 1/2	3/16	3 13/16

*All terminals are spaced 1/2 inch on each side of vertical centerline.
**Terminals located above centerline.
***Terminals located below centerline.

FEATURES AND SPECIFICATIONS Ac and Dc Panel Instruments

Round Type (N-351, N-371) Outline and Drilling Dimensions



Type	Instrument	Standard Terminal*	Dimension in Inches										
			A	B	C	D Thread Size	E	F	G	H	J	K	L Dia.
NA-351	Ac Voltmeters, Ac Milliammeters, and Ac Ammeters through 20 Amps	Threaded Type	3 1/2	1 19/32	.170**	.138 to 32 (6-32)	2.795	3.16	1.368	1.58	0.79	2 13/16	0.15
NA-351	Ac Ammeters 30 through 50 Amps	Threaded Type	3 1/2	1 5/8	.170**	.138 to 32 (6-32)	2.795	3.16	1.368	1.58	0.79	2 13/16	0.15
NC-351 NX-351	All (Except Dc Millivoltmeters and Self-Contained Dc Ammeters Above 10 Amps)	Threaded Type	3 1/2	1 1/8	.156**	.138 to 32 (6-32)	2.795	3.16	1.368	1.58	0.79	2 13/16	0.15
NT-351	All Thermocouple Types	Threaded Type	3 1/2	1 1/4	.156**	.138 to 32 (6-32)	2.795	3.16	1.368	1.58	0.79	2 13/16	0.15
NX-351	Dc Millivoltmeters and Self-Contained Ammeters Above 10 Amps	Threaded Type	3 1/2	1 1/8	.156**	.138 to 32 (6-32)	2.795	3.16	1.368	1.58	0.79	2 13/16	0.15
NX-371	All (Except Dc Milliammeters and Self-Contained Dc Ammeters Above 10 Amps)	Threaded Type	4.562	1 1/2	.156***	.164 to 32 (8-32)	3 25/32	4.126	1.786	2.063	1.032	3 13/16	3/16
NA-371 NT-371	All	Threaded Type	4.562	1 1/2	.156***	.164 to 32 (8-32)	3 25/32	4.126	1.786	2.063	1.032	3 13/16	3/16
NX-371	Dc Millivoltmeters and Self-Contained Dc Ammeters Above 10 Amps	Threaded Type	4.562	1 1/2	.156***	.164 to 32 (8-32)	3 25/32	4.126	1.786	2.063	1.032	3 13/16	3/16

*All terminals are spaced 1/2 inch on each side of vertical centerline.

**Terminals located above centerline.

***Terminals located below centerline.

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