



## Miniature Switchboard Instruments — 2180 Series

### GENERAL SPECIFICATIONS

Full Scale Deflection: 250° taut band movement  
 Full Scale Length: Approx. 140mm (5.5")  
 Pointer: Sword type, black  
 Scale Plate: Platform type, white  
 Case: ABS resin, black  
 Cover: Methacrylic acid resin with antistatic processing on both sides.  
 Standard color . . . Black (Munsell N. 1.5/0) or jade green (Munsell 7.5 BG4/1.5)

Terminal Plate: Phenol resin, black  
 Mounting Screw: 5mm dia.  
 Measuring Terminal: 5mm dia (nut type)  
 Operating Temperature Range: 0 to 40° C (32 to 104° F)  
 Storage Temperature Range: -10 to 50° C (14 to 122° F)  
 Dielectric Strength: 2,600 V AC for one minute between electric circuit and case  
 Watts, Vars, Unbalanced Power Factor supplied with external transducer.

Model Type		Ranges Available	Standard Ratings and Scales	Catalog Number	Operating Principle	Accuracy
DC	Ammeters	500µA ~ 30A	See Table On Next Page	218100	Moving coil type	±1.5% of full scale value
	Voltmeters	30V ~ 300V		218100		
AC	Ammeters	500µA ~ 30A		218200	RMS sensing transducer type	±1.5% of full scale value
	Voltmeters	3V ~ 600V		218200		

Type	Rating	Connection	Voltage Load Current	Elements	Catalog Number	Operating Principle	Accuracy
AC	Wattmeters	Single-phase		1	218531	Feedback Time Division Multiplier Transducer*	±1.5% of full scale value
		3-phase 3-wire	Unrestricted	2	218535		
			Unrestricted				
		3-phase 4-wire	Balanced	2-1/2	218534		
	Unrestricted						
	Varmeters	Specify 120V/5A or 240V/5A input, full scale watt or var value, frequency rating, PT and CT Ratio	3-phase 4-wire	Unrestricted	3		218536
			Single-phase		1		218631
			3-phase 3-wire	Balanced	2		218633
				Unrestricted			
	3-phase 3-wire	Unrestricted	2	218635			
		Unrestricted					
	3-phase 4-wire	Balanced	2-1/2	218634			
		Unrestricted					
	3-phase 4-wire	Unrestricted	3	218636			
Unrestricted							
Power Factor Meters	120V/5A or 240V/5A	Single-phase		1	218731	Phase angle sensing transducer	±5.0% of Scale Length
		3-phase 3-wire	Balanced	1	218733		
			Unrestricted				
		3-phase 3 wire	Unrestricted	2	218735		
Unrestricted							
3-phase 4-wire	Unrestricted	3	218736				
	Unrestricted						
Frequency Meters	115V or 230V	45-55 Hz, 55-65 Hz 45-66 Hz Rating Available			218830	Frequency sensing transducer type	±0.5% of center frequency

\*Instrument is furnished with external transducer. Contact Yokogawa for transducer outline and connection drawings.