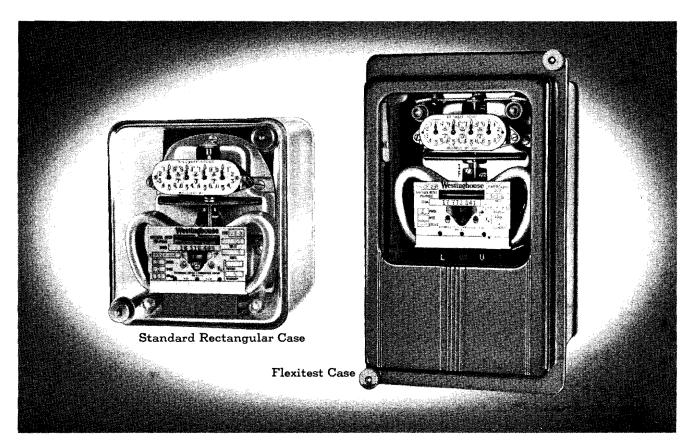


## WATTHOUR METERS SWITCHBOARD - SINGLE AND POLYPHASE

42-104

SELF-CONTAINED OR TRANSFORMER TYPE . STANDARD RECTANGULAR OR FLEXITEST CASE



CB-F (Flexitest case)—comprise a complete line of single-phase and polyphase meters, for mounting on switchboards. The standard rectangular case and the Flexitest case are available for all types. These cases are styled to match standard rec-

WESTINGHOUSE SWITCHBOARD WATTHOUR METER-TYPE CB AND

for all types. These cases are styled to match standard rectangular relay cases and thereby blend into multi-panel switchboard installation.

These switchboard meters have the same fundamental electrical design and performance characteristics as the house type meters Type CS and CA. Component parts are the same as those used in these standard type watthour meters. Standard

demand registers, demand contacts, ratchets, and other accessories can be used in all Type CB and CB-F switchboard meters.

Self-contained and transformer type meters are available in both single and polyphase styles.

METER	AMPS	CASE
Self-Contained	5, 15, 50	Standard Rectangular for Projection Mounting
Transformer Type	2.5, 5	Flexitest-Projection or Semi-Flush

For Type CB meter number code and type of service application chart see page 6.

#### WESTINGHOUSE SPECIAL FEATURES

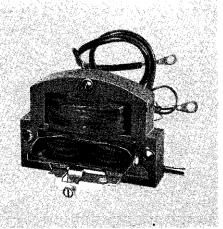
- SEPARATE DISC for each electrical element.
- MICROMETER ADJUSTMENTS accessible from front of meter, for light load, full load and torque balance.
- LOOP POWER FACTOR ADJUSTMENT is soldered to assure fixed power factor calibration.
- BUILT-IN temperature and overload compensation.

- BAYONET MOUNTED REGISTER—no adjustment of gear mesh required.
- PRECISION-MILLED GEARS (not stamped)—to insure minimum friction.
- GOLD PLATED GEARS to eliminate corrosion.
- FLEXITEST CASE provides maximum flexibility in maintenance and testing of the equipment; also permits meter to be projection or semi-flush mounted.

## WITCHBOARD . SINGLE AND POLYPHASE Type CB AND CB-F



#### **CONSTRUCTION FEATURES**



#### **ELECTROMAGNET**

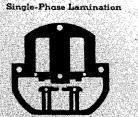
One-piece laminations—fixed air gaps and flux paths.

High-reactance, low-loss potential coils. On polyphase electromagnets torque balancing adjustment is directly opposite potential pole.

High overload capacity, low-loss current coils—excellent performance characteristics up to and beyond 300% full load.

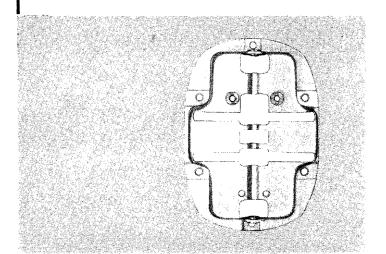
Accurate compensation over a wide range of temperatures.

Light load and power factor adjustments built into electromagnet—calibration does not change when electromagnet is removed.





Polyphase Lamination

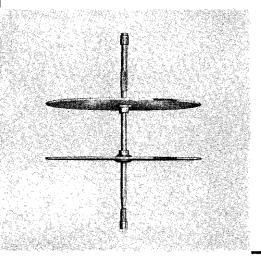


#### **FRAME**

Strong, rigid, steel frame supports all parts of meter element.

Correct, fixed mounting locations—micrometer checked.

Designed for permanent alignment.



### MOVING ELEMENT AND BEARINGS

Hardened, non-corrosive top bearing pin with sealed in lubrication.

Drive pinion is milled on shaft.

Strong and accurately constructed moving element. Discs are pressed on and permanently located without use of set screws.

Life-time ball and jewel bearing, with Negligible wear, Minimum friction, No lubrication, No periodic replacement, Low maintenance.
Assures sustained accuracy.

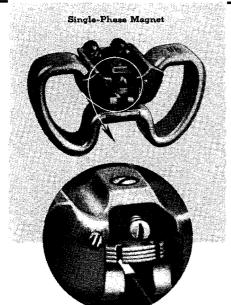


### WATTHOUR METERS ICHBOARD - SINGLE AND POLYPHASE

TYPE CB AND CB-F

42-104

#### **CONSTRUCTION FEATURES**



#### PERMANENT MAGNET

High grade chrome steel with rigid unit mounting construction; insures permanent characteristics, long-time accuracy.

Fine, accurate non-adjustable mounting location.

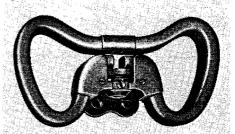
Built-in micrometer full load adjustment.

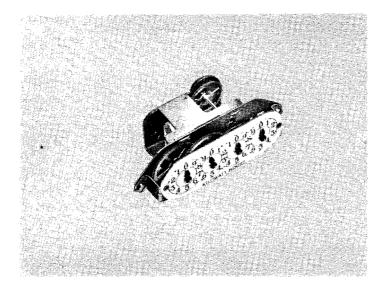
Temperature compensated.

Heavily copper plated to protect against lightning current surges.

Calibration not disturbed when magnet is removed or replaced.







#### REGISTER

Precision milled gear teeth.

Slow-speed worm.

Accurate fixed self-meshing between register gear and moving element driving pinion—no adjustment required.

Jewelled step bearing.

Gold finished gears and shafts—no corrosion.

Rigid frame maintains correct gear mesh and bearing locations.

Construction assures low friction and safeguards against friction changes in service.

Register mounting completely interchangeable in single phase and polyphase meters.

#### ACCESSORIES-

**POTENTIAL INDICATING LAMPS** are standard on all polyphase meters.

RATCHETS—Ratchet attachments, to prevent reverse rotation, can be supplied with new meters or as an addition to old meters. Ratchet is \$1.10 List Price extra.

**DEMAND REGISTERS** can be provided for all types of these meters. Covers furnished with demand attachments have metal sides with glass front for all types of meters.

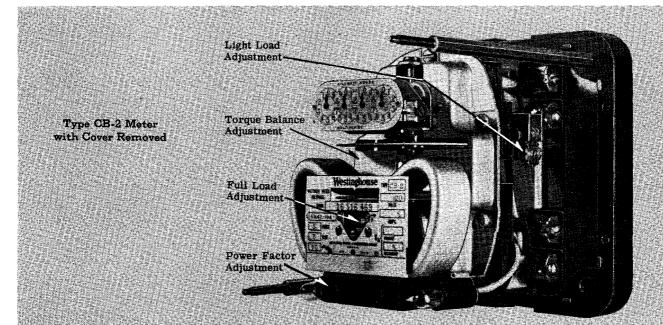
**DEMAND CONTACTS**—Standard register mounted demand contact devices can be applied to all types of these meters.

When meters are supplied complete with demand contacts, extra terminals are provided for the contact leads in all meters except the Type CB-8 equipped with a 3-wire contact device. With this combination the contact leads are brought out through an insulating bushing in one of the extra knockout openings. The location of the extra terminals in the base is designated on the connection diagrams by "K,Y,Z". "K" is the common connection for 3-wire contacts. For 2-wire contacts terminals "Y" and "Z" only are supplied. Demand contacts cannot be applied to these meters when a demand register attachment is used. All contact devices and impulse operated demand metering apparatus are listed in Catalog Section 42-520.

#### SINGLE AND POLYPHASE /ITCHBOARD • TYPE CB AND CB-F



#### STANDARD RECTANGULAR CASE

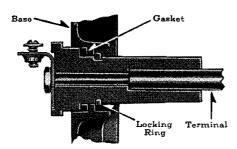


COVER.—Cover for the standard rectangular type meters are all glass. The cover is stud mounted with knurled thumb nuts for tightening. Hole in stud end provides for sealing wire.

BASE.—The base is a flat rectangular alloy die-casting. Sturdy posts are provided on which elements are mounted. The standard rectangular case is for projection mounting only.

#### **TERMINALS**

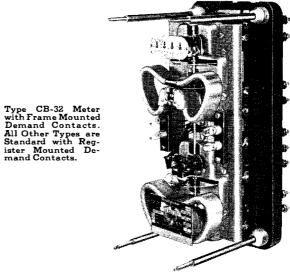
All terminals are alike. They have square heads and are highly insulated by moulded bushings which extend  $1\frac{1}{4}$ " beyond the meter base. The terminal seats into rectangular channels in the base. On metal panels, circuit connections are made by 1/4" diameter screws threaded into the ends of the terminals and secured by crimp washers. In addition, a complete set of extension studs, nuts and crimp washers suitable for panels up to 2 inches thick are furnished with all standard rectangular meters.



Section Through Terminal Assembly

#### **DEMAND CONTACTS**

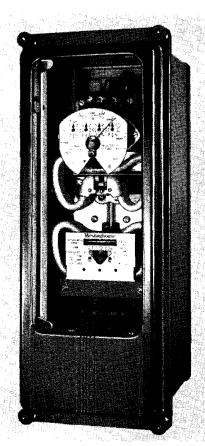
Three extra knockouts are provided in the base of all meters, except the type CB-8, to accommodate additional terminals for demand contacts. The Type CB-8 meters have only 2 extra knockouts. When 3-wire demand contacts are to be applied to the Type CB-8 meters, the leads are brought out in a 3-conductor cable through a bushing in one of the knockout openings.

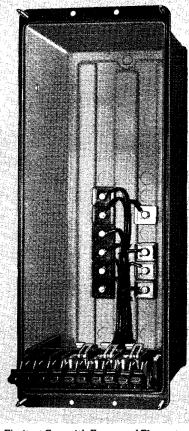


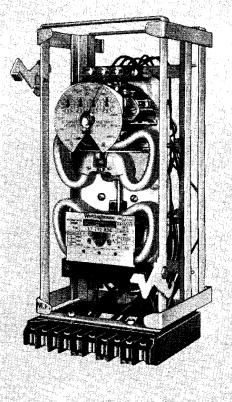
## WATTHOUR METERS SWITCHBOARD • SINGLE AND POLYPHASE TYPE CB AND CB-F

42-104

#### FLEXITEST CASE







Type CB-3FW Meter with Type RW Demand Register

Flexitest Case with Frame and Element Removed. Note Knife Switches.

Frame and Elements. Note Two Cam-Action Latches on Frame.

THE NAME FLEXITEST was chosen to represent the most important feature of this case—maximum flexibility in the maintenance and testing of the equipment. Simple, reliable, trouble-free maintenance and testing are insured through the use of knife blade switch construction and removeable chassis.

THREE SIZES OF CASES ARE AVAILABLE—S-10, M-10 and M-20. The S-10 and M-10 cases have a maximum of ten switch positions. The M-20 case provides twenty switch positions.

#### Flexibility

- 1 Individual knife blade switches in each circuit.
- 2 Removable unit chassis.
- 3 Elements can be checked either in or out of case.
- 4 Independent checking of any circuit. Current and voltage circuits easily distinguished.
- 5 Test plug or clip leads make possible quick easy test connections.
  All test connections made at the front.
- 6 Each circuit can be identified by the cards on switch handle.
- 7 Screw or stud type terminal connections possible.

#### Reliability

- 1 Standard meter elements used.
- 2 Rugged knife blade switch construction.
- 3 Self-aligning switches.
- 4 Positive current short circuiting switches.
- 5 Current transformers secondaries automatically short circuited when chassis is removed.
- 6 Ample creepage distance provided between terminals.
- 7 Chassis held securely in place by cam action latches.
- 8 Positive stops on all switch blades prevents accidentally opening current transformer secondaries.

## WITCHBOARD • SINGLE AND POLYPHASE Type CB AND CB-F



#### TYPE NUMBER CODE

The Type CB switchboard meter code numbers are explained here. Arrangement of the elements in each type meter determines the code classification:

The application chart below is a convenient guide to the type of meter and the connections generally recommended for the services listed.

TYPE CB ——Standard, single-element, single-phase meters.

CB- 2—Standard, two-element, polyphase meters.

CB- 3—Standard, three-element, polyphase meters.

CB- 8—So-called "2½-element" meters for 3-phase 4-wire "Y" circuits. The meter has two elements with two potential coils. Each element has a 3-wire current winding on the electromagnet. One-half of the current winding on each element is inter-connected inside the meter to form the third current element.

CB-32—Four-element meters for totalizing two 3-phase 3-wire circuits. These meters have four separate

elements reacting upon four discs common to the same shaft. If the voltage and kilowatt capacity of both circuits are equal, all elements will be of equal rating. If not, the rating of the current elements will be such as to make the kilowatt rating the same for each element.

CB-38—Four-element meters for totalizing two 3-phase 4-wire "Y" circuits. These meters have four elements, the same as the type CB-32 meters, except that the current windings are 3-wire. The current windings are interconnected inside the meter so as to constitute the equivalent of two type CB-8 meters mounted one above the other and both reacting upon the same disc shaft. If the voltage and the kilowatt capacity of both circuits are equal, the ratings of all elements will be the same. If not, the rating of the current windings will be such as to make the kilowatt capacity the same for all elements.

#### **APPLICATION CHART-**

			SELF-CONTAIN	ED		FOR	USE WITH TRAN	SFORMER	
SER	VICE	ТҮРЕ	NO. OF ELEMENTS	CONN. OIAG. FIG. NO.	ТҮРЕ	NO. OF ELEMENTS	CURR. Requ	TRANSF. IRED	CONN. DIAG. FIG. NO.
میں	2-Wire 1-Phase	СВ	1	5	CB CB-F	1 1	2-WIRE	3-WIRE	5 7
000	3-Wire 1-Phase	CB CB-2	1 2	6 10	CB CB CB-2 CB-F CB-2F	1 1 2 1 2	2 2 2 2	i	6 9 11 8 14
Page 1	3-Wire Network	CB-2	2	10	CB-2 CB-2F	2 2	2 2	::	11 14
See See	3-Wire 2-Phase 3-Wire 3-Phase	CB-2	2	10	CB-2 CB-2F	2 2	2 2		11 14
	4-Wire 2-Pha <b>se</b>	CB-2	2	12	CB-2 CB-2F	2 2	2 2		13 Not Shown
par least	4-Wire 3-Phase Wye	CB-8 CB-3	2½ 3	21 16	CB-2 CB-8 CB-8F CB-3 CB-3F	2 2½ 2½ 3 3	3 3 3 3 3		15 22 23 17 18
	3-Wire 3-Phrse Totalizing	CB-32	4	Not Shown	CB-32	4	4		24
Diagram Control of the Control of th	4-Wire 3-Phese Totalizing	CB-38	4	Not Shown	CB-38	4	6		25



## WATTHOUR METERS SWITCHBOARD • SINGLE AND POLYPHASE TYPE OB AND OB-F

42-104

### SINGLE ELEMENT—SINGLE PHASE METERS

CB

			STANDA Rectangula Projectio	R CASE§				STANDARD RECTANGULAR CASES PROJECTION MTG.		FI	EXITEST CASE		
VOLTS‡	AMPS.	KW RATING			VOLTS‡	AMPS	KW RATING	2		STYLE NUMBER			
			STYLE NUMBER	PRICE				STÝLE NUMBER	LIST PRICE	CB-F	CB-FP	PRICE	
			KOMBEK	İ				NO III DEN		SEMI-FLUSH	PROJECTION	1	
	SEL	F-CONT	TAINED		Transfer		FOR	USE WITI	H TRAN	SFORMERS	;		
120 2-Wire	5 15 50	0.6 1.8 6.0	1308 986 1208 987 1208 988	\$26.85 26.85 35.85	120 2-Wire	5 5	0.6* †	1209 019 1209 020	\$26.85	1272 275 1272 277	1274 275 1274 277	\$45.00	
240 2-Wire	5 15 50	1.2 3.6 12.0	1208 989 1208 990 1208 991	28.25 28.25 36.75	240 2-Wire	5 5	1.2*	1209 021 1209 022	28.25	1272 279 1272 281	1274 279 1274 281	46.50	
240 3-Wire	5 15 50	1.2 3.6 12.0	1208 992 1208 993 1208 994	28.25 28.25 36.75	240 3-Wire or Two 2-Wire	5 5	1.2*	1209 023 1209 024	28.25	1272 283 1272 285	1274 283 1274 285	46.50	

- § Standard rectangular case. Style Number and List Price include meter complete with glass cover and facilities for either thin or thick panel mounting.
- ‡ For 480 volt meter add **\$5.00** List Price to price of 240 volt meter. Order "Similar to S#...., except 480 volts."
- # These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S#....., except 50 cycle".
- \* These meters are supplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified on order.

		Т			T-POI	LYPE	IASE	METER		ı		B-2
			STANDA Rectangula					STAND RECTANGUL		FI	EXITEST CASE	
			PROJECTIO					PROJECTIO	0		ELATTEST CASE	
VOLTS	AMPS.	KW RATING	#		VOLTS	AMPS	KW Rating			STYLE NUMBER		
			STŸLE Number	LIST PRICE				STÝLE NUMBER	LIST PRICE	CB-2F	CB-2FP	PRIC
			NOMBER					Nomben		SEMI-FLUSH	PROJECTION	
	SELI	F-CONT	AINED				FOR	USE WIT	H TRAN	SFORMERS	5	
120 120 120	5 15 50	1.2 3.6 12.0	1209 046 1209 047 1209 048	\$48.25 48.25 68.15	120 120 120 120	2.5 2.5 5.0 5.0	0.6* † 1.2* †	1209 089 1209 090 1209 091 1209 092	\$48.25	1272 287 1272 289 1272 291 1272 293	1274 287 1274 289 1274 291 1274 293	\$66.75
240 240 240	5 15 50	2.4 7.2 24.0	1209 049 1209 050 1209 051	52.50 52.50 71.00	240 240 240 240	2.5 2.5 5.0 5.0	1.2* † 2.4* †	1209 093 1209 094 1209 095 1209 096	52.50	1272 295 1272 297 1272 299 1272 301	1274 295 1274 297 1274 299 1274 301	71.45
480 480 480	5 15 50	4.8 14.4 48.0	1209 052 1209 053 1209 054	59.75 59.75 79.50	480 480 480 480	2.5 2.5 5.0 5.0	2.4* † 4.8* †	1209 097 1209 098 1209 099 1209 100	59.75	1272 303 1272 305 1272 307 1272 309	1274 303 1274 305 1274 307 1274 309	78.20
					600 600 600 600	2.5 2.5 5.0 5.0	3.0* † 6.0* †	1209 101 1209 102 1209 103 1209 104	59.75	1272 311 1272 313 1272 315 1272 317	1274 311 1274 313 1274 315 1274 317	78.20

- § Standard rectangular case. Style Number and List Price include meter complete with glass cover and facilities for either thin or thick panel mounting.
- # These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S#....., except 50 cycle".
- \*These meters are eupplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified on order.

42-104

# WATTHOUR METERS SWITCHBOARD • SINGLE AND POLYPHASE TYPE OB AND CB-F



#### THREE ELEMENT-POLYPHASE METERS

**CB-3** 

			STANDA Rectangula Projection	R CASES				STANDAR Rectangular Projection		FI	FLEXITEST CASE		
VOLTS‡	AMPS.	RATING	STŸLE	LIST PRICE	VOLTS‡	AMPS	RATING	STŸLE	LIST	STYLE I	NUMBER CB-3FP	LIST PRICE	
	SELI	F-CONT	NUMBER AINED				FOR	NUMBER USE WITH		SEMI-FLUSH SFORMERS	PROJECTION		
120/208 " <b>Y</b> "	5 15 50	1.8 5.4 18.0	1209 137 1209 138 1209 139	\$72.25 72.25 100.00	120/208 "¥"	2.5 2.5 5.0 5.0	0.9* † 1.8* †	1209 163 1209 164 1158 472 1209 165	\$72.25	1272 319 1272 321 1272 323 1272 325	1274 319 1274 321 1274 323 1274 325	\$91.00	

- § Standard rectangular case. Style Number and List Price include meter complete with glass cover and facilities for either thin or thick panel mounting.
- # These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S#....., except 50 cycle".
- $\updownarrow$  For 270, 480 volt meter add \$5.00 List Price to price of 120/208 volt meter.
- ¶ For use with contact device, a 20 switch case is required—add \$7.45 to List Price for this feature. Price of contact device not included.
- \* These meters are supplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified on order.

,	"TW	O AN	ID A H	ALF"	ELEME	NT-	-POL	YPHASI	E ME	ΓERS		CB-8
			STANDA RECTANGULA PROJECTION	R CASE§				STANDA RECTANGULA PROJECTIO	R CASE §	Fl	EXITEST CASE	
VOLTS‡	AMPS.	KW RATING	4		VOLTS‡	AMPS	KW Rating	,,	İ	STYLE	∉ IU MBER	
			STÝLE NUMBER	LIST PRICE				STÝLE NÚMBER	LIST PRICE	CB-8F	CB-8FP	PRICE
			NUMBER					NUMBER		\$EMI-FLUSH	PROJECTION	
	SELI	F-CONT	TAINED				FOR	USE WITH	1 TRAN	SFORMERS	;	
120/208 " <b>Y</b> "	5 15 50	1.8 5.4 18.0	1209 191 1209 192 1209 193	\$52.50 52.50 71.00	120/208 "Y"	2.5 2.5 5.0 5.0	0.9* † 1.8* †	1209 217 1209 218 1209 219 1209 220	\$52.50	1272 327 1272 329 1272 331 1272 333	1274 327 1274 329 1274 331 1274 333	\$71.45

- § Standard rectangular case. Style Number and List Price include meter complete with glass cover and facilities for either thin or thick panel mounting.
- \* These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S\*...., except 50 cycle."
- $\updownarrow$  For 277, 480 volt meter, add \$5.00 List Price to prices of 120/208 volt meter.
- \*These meters are supplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified on order.



# WATTHOUR METERS SWITCHBOARD • SINGLE AND POLYPHASE TYPE OF AND OR-F

42-104

VOLTS	AMPS	KW	TING		VOLTS	AMPS	KW	STANDA RECTANGULA PROJECTIO	R CASES	ri Evite	CT CASE
VOLIS	AMF3	RATING	#STYLE Number	LIST PRICE	VULIS	AMPS	RATING	#STYLE NUMBER			OF GASE
	SELF	-CONT	AINED				FOR	USE WIT	H TRAN	SFORMERS	
120 120 120	5 15 50	2.4 7.2 24.0	1209 250 1209 251 1209 252	\$140.00 140.00 179.80	120 120 120 120	2.5 2.5 5.0 5.0	1.2* † 2.4* †	1209 293 1209 294 1209 295 1209 296	\$140.00		***************************************
240 240 240	5 15 50	4.8 14.4 48.0	1209 253 1209 254 1209 255	148.50 148.50 187.50	240 240 240 240	2.5 2.5 5.0 5.0	2.4* † 4.8* †	1209 297 1209 298 1209 299 1209 300	148.50	Flexitest Case is \$20.00 List Price	to Standard Re
480 480 480	5 15 50	9.6 28.8 96.0	1209 256 1209 257 1209 258	163.00 163.00 204.50	480 480 480 480	2.5 2.5 5.0 5.0	4.8* † 9.6* †	1209 301 1209 302 1209 303 1209 304	163.00	tangular Case. C S#, excep	Order "Similar of Flexitest Case
					600 600 600	2.5 2.5 5.0 5.0	6.0* † 12.0*	1209 305 1209 306 1209 307 1209 398	163.00		

- § Standard rectangular case. Style Number and List Price include meter complete with glass cover and facilities for either thin or thick panel mounting.
- \* These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S\*....., except 50 cycle".
- \*These meters are supplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified on order.

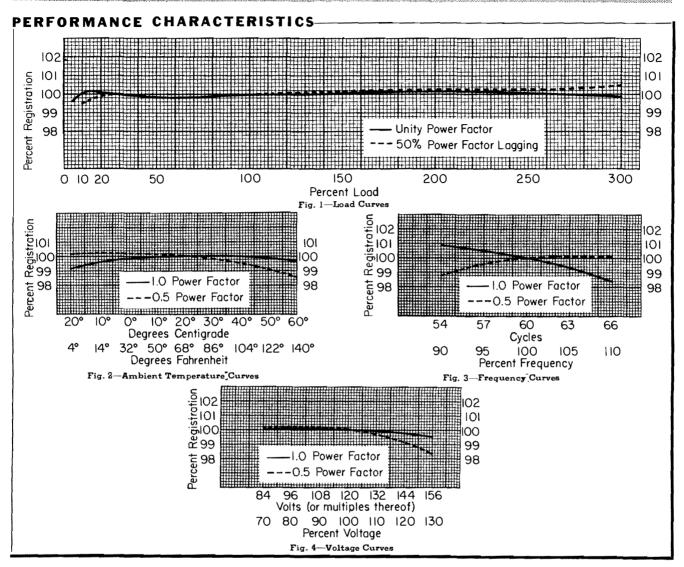
F	OUR	ELE	MENT-	-POLY	PHASE	ME	TER	FOR TO	DTALI	ZING	<b>CB-38</b>
VOLTO	44400	ĸw	STAND Rectangul Projectio	AR CASES	WOLTO		KW	STANDA RECTANGULA PROJECTIO	AR CASES	FLEXITES	. 0405
VOLTS	AMPS	RATING	#STYLE NUMBER	LIST PRICE	VOLTS	AMPS	RATING	#STYLE NUMBER	LIST PRICE	FLEATTES	CASE
	SELF	-CONT	AINED			•	FOR	USE WITH	TRANS	FORMERS	
120/208 '' <b>Y</b> ''	5 15 50	3.6 7.8 36.0	1209 347 1209 348 1209 379	\$148.50 148.50 187.50	120/208 "Y"	2.5 2.5 5.0 5.0	1.8* † 3.6* †	1209 373 1209 374 1209 375 1209 376	\$148.50	Flexitest Case is \$20.00 List Price t tangular Case. OS \$\(\text{\chi}\), except	available. Add o Standard Rec- rder "Similar to Flexitest Case".

- § Standard rectangular case. Style Number and Price List include meter complete with glass cover and facilities for either thin or thick panel mounting.
- \* These style numbers are for 60 cycles; however, 50 cycle meters are available at same List Price. Order "Similar to S\*...., except 50 cycle".
- \* These meters are supplied with registers corresponding to their kw capacity without transformers. When used with transformers, the reading must be multiplied by the ratio of the transformers.
- † These meters are supplied with registers of kw capacity corresponding to the instrument transformer ratios specified in order.

### SINGLE AND POLYPRASE







#### **CHARACTERISTICS**

#### TYPE CB-2 METER-5 AMPS, 120 VOLTS, 60 CYCLE, 2-ELEMENT

Starting watts.         3           Rpm at 1200 watts.         30	Loss in voltage coil circuit per element (Watts at 120 volts)	
Watthour Constant	Without potential indicating lamps	1.5 1.7
Weight of Moving Element (grams)	Loss in current coil circuit per element (Watts at 5 amperes)	16
Resistance of voltage coil circuit (ohms)	Power factor of voltage-coil circuit Without potential indicating lamps With potential indicating lamps	. 18 .2 1

#### WEIGHTS AND DIMENSIONS

		Al	PPROXIMATE V	APPROXIMATE DIMENSIONS—INCHES							
METER TYPE	QUANTITY	1		DOMESTIC FOREIGN				FOREIGN			
	QUANTITY	NET	GROSS	NET	LEGAL	GROSS	QUANTITY	LENGTH	WIDTH	HEIGHT	
СВ	1	10	14	10	14	28	1 8	13 28	13 27	13 28	
CB-2, CB-8	1	11	15	11	15	30	1 8	13 28	13 27	13 28	
CB-3	1	15	25	15	25	54	1	24	14	15	
CB-32, CB-38	1	25	35	25	35	55	1	24	14	15	

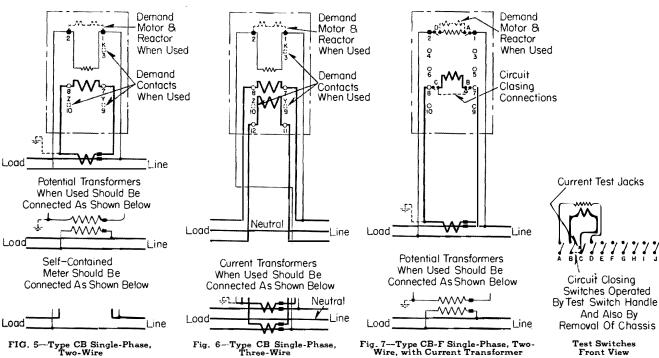
### **WATTHOUR METERS** SINGLE AND POLYPHASE TYPE GB AND CB-F

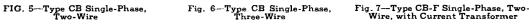
#### WIRING DIAGRAMS

TYPE CB

#### For Reference Only

#### REAR VIEWS





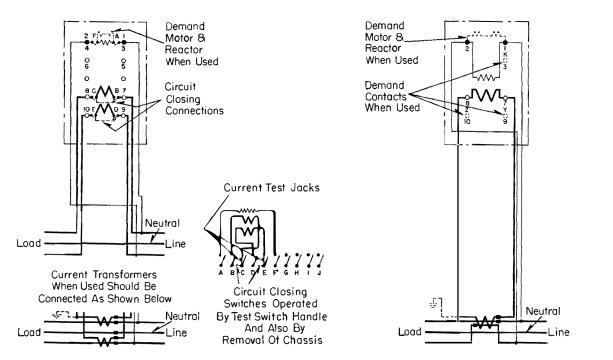


Fig. 8—Type CB-F Single-Phase, Three-Wire, with Current Transformer

Test Switches Front View

Fig. 9—Type CB Single-Phase, Three Wire Using Three-Wire Current Transformer

# WATTHOUR METERS SWITCHBOARD • SINGLE AND POLYPHASE TYPE OB AND OB-F



#### WIRING DIAGRAMS

TYPE CB-2

#### For Reference Only.

#### REAR VIEWS.

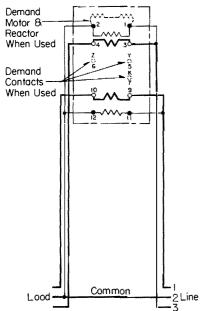


Fig. 10—Type CB-2 Self-Contained, Single Phase, Two-Phase, Three-Phase, Three-Wire and Three-Wire Network

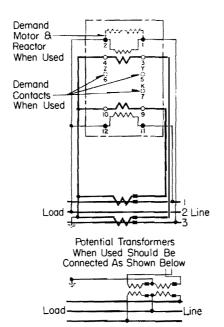


Fig. 11—Type CB-2 Transformer Type, Single-Phase, Two-Phase, Three-Phase, Three-Wire and Three-Wire Network

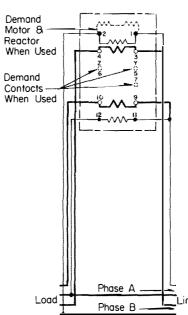
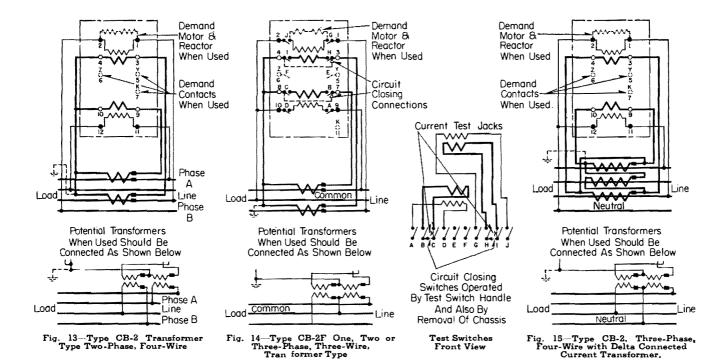


Fig. 12—Type CB-2 Self-Contained, Two-Pha e, Four-Wire



#### WATTHOUR METERS TCHBOARD SINGLE AND POLYPHASE

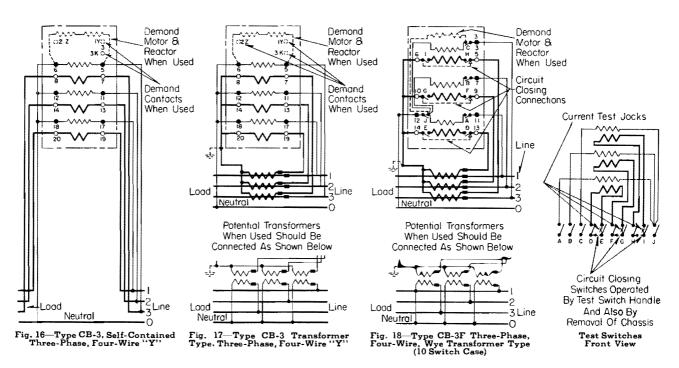
TYPE CB AND CB-F

#### WIRING DIAGRAMS

TYPE CB-3

#### For Reference Only.

#### REAR VIEWS



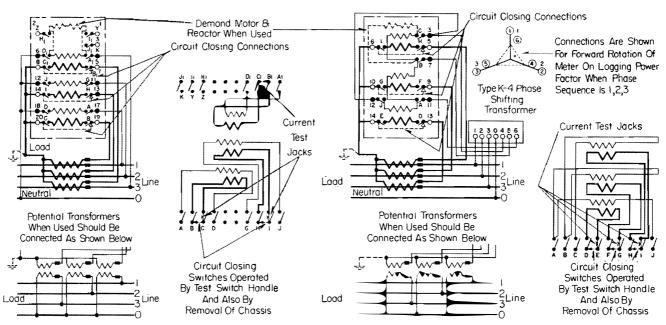


Fig. 19—Type CB-3F Three-Phase, Four-Wire with Transformer and with Demand Contacts (20 Switch Case)

Fig. 20—Type CB-3F Three-Phase, Four-Wire Transformer Type with K-4 Phase Shifting Transformer for Reactive Metering (20 Switch Case)

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#### **WATTHOUR METERS**

### SWITCHBOARD . SINGLE AND POLYPHASE TYPE CB AND CB-F

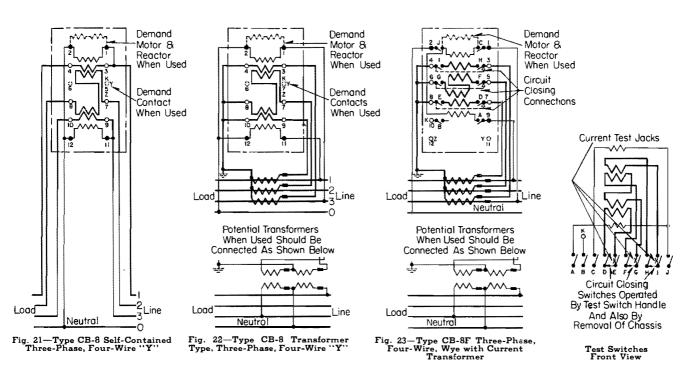


#### WIRING DIAGRAMS

TYPE CB-8

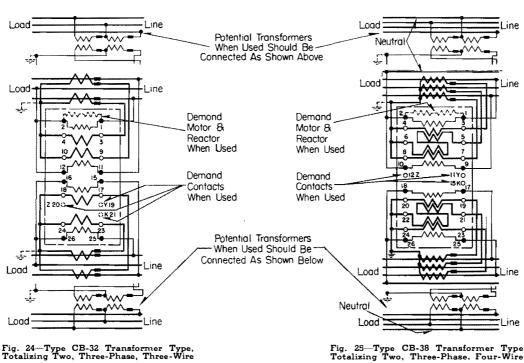
#### For Reference Only.

#### **REAR VIEWS**



#### TYPE CB-32

#### TYPE CB-38



**DIMENSIONS IN INCHES** 

TYPE CB, CB-2, CB-8

For Reference Only.

ONE AND TWO ELEMENT METERS

#### STANDARD RECTANGULAR CASE

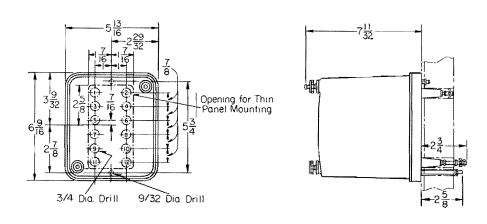


Fig. 26

#### FLEXITEST MOUNTING CASE

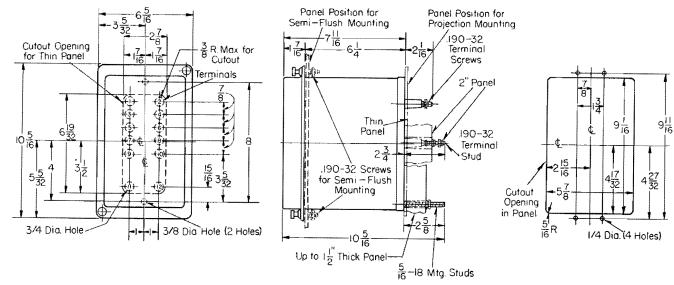


Fig. 27-Ten Test Switch Case, Size S-10

## SWITCHBOARD • SINGLE AND POLYPHASE TYPE CB AND GB-F



#### **DIMENSIONS IN INCHES**

For Reference Only.

TYPE CB-3
THREE ELEMENT METERS

#### STANDARD RECTANGULAR CASE

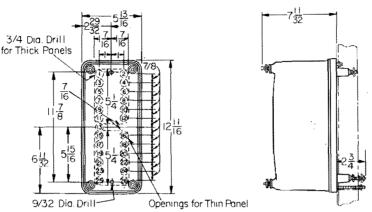
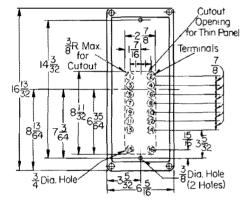
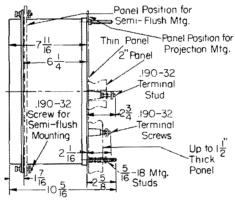


Fig. 28

#### FLEXITEST MOUNTING CASE



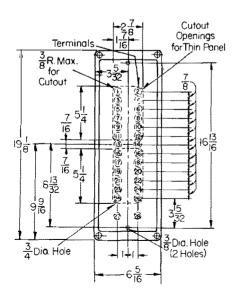


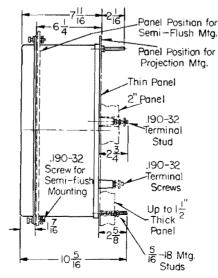
Cutout Copening in Panel  $\frac{1}{4}$  Dia (4 Holes)

Fig. 29-Ten Test Switch Case, Size M-10

**TYPE CB-32, CB-38** 

#### FLEXITEST MOUNTING CASE





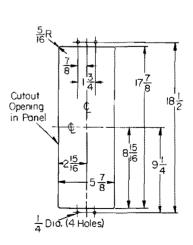


Fig. 30—Twenty Test Switch Case for Contact Brackets, Size M-20

WESTINGHOUSE NEWARK PLANT • ELECTRIC METER DIVISION CORPORATION

NEWARK, N. J.