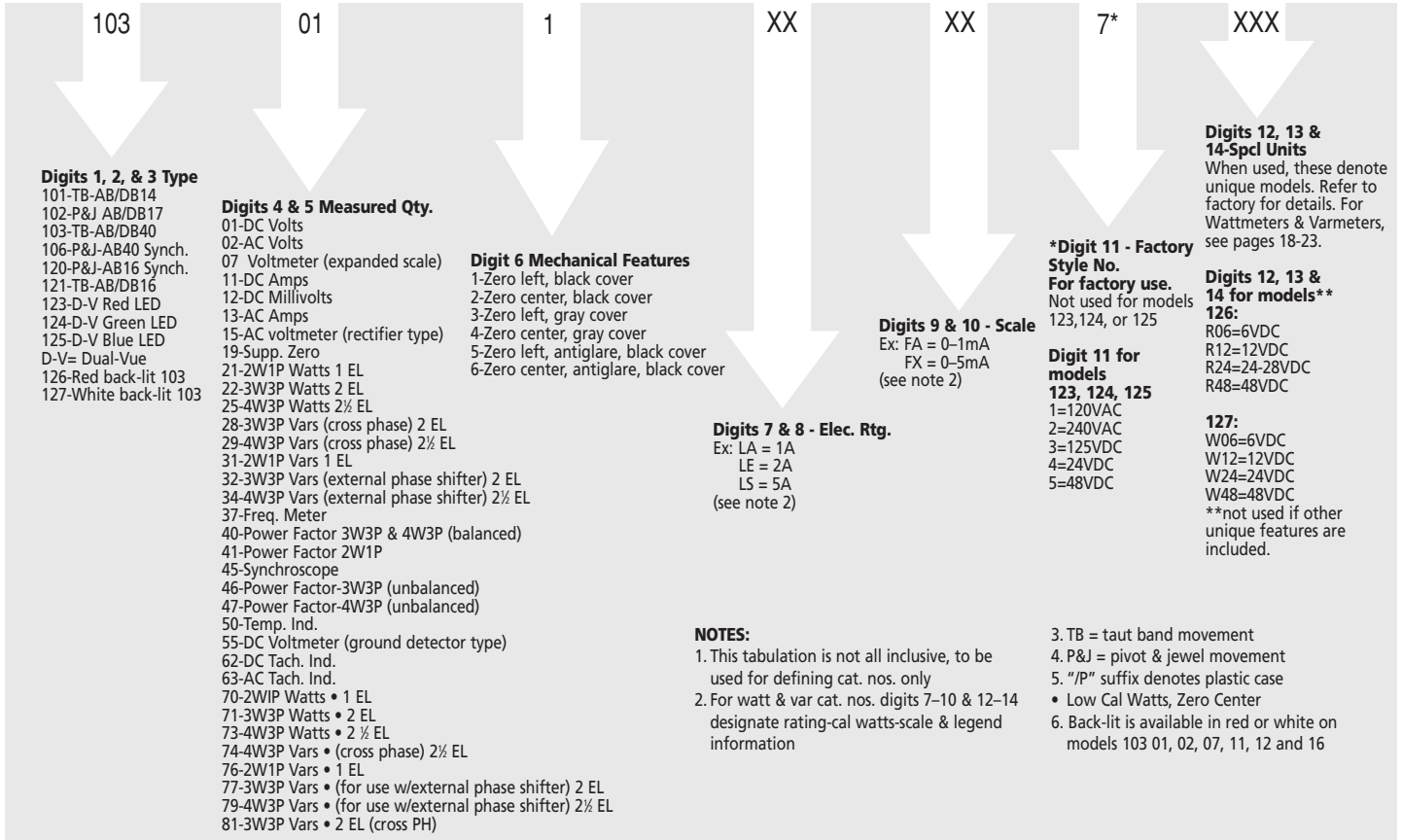


Key to AB/DB Switchboard Numbering System (See Notes)



How to Order — Specify the following:

- Complete catalog number, or;
- Provide significant portion of catalog number with word description for differences (e.g. "Similar to 103111FAFA, except scale 0-100 kilovars"), or
- Provide word description including the following information:
 Type: AB/DB-14, 16, or 40
 Rating (Input):.....Amperes AC or DC
 Volts AC or DC.....
 Frequency: 60 Hz, 50 Hz, 400 Hz Hz
 Scale: Min. Value - Max. Value, Zero left, Zero-center or offset zero
 Legend: Specify words and/or symbols exactly
 Potential Transformer Ratio:.....to 120 volts or to volts
 Current Transformer Ratio: to 5 amperes or to amperes
 Circuit: 2-wire/single-phase, 3-wire/3 phase.
 3-phase/4-wire.....other
 External Devices; phase Shifting transformers, shunts transducers, etc.....
 Other Options:.....
 Special features

Shipping & Storage Weights

Instrument		*AD/DB-40				AD/DB-16			
		Net		Ship		Net		Ship	
		(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)
DC-A/V		1.5	.70	2.4	1.1	3.0	1.4	5.0	2.2
AC	V	1.7	.79	2.7	1.2	3.4	1.5	5.0	2.2
	A	1.8	.84	2.7	1.2	3.4	1.5	5.0	2.3
WATT/ VAR	1ø	2.8	1.3	3.6	1.7	4.4	2.0	6.0	2.8
	3ø3W	3.0	1.4	3.9	1.8	4.6	2.1	6.3	2.9
	3ø4W								
Power Factor		2.0	.95	3.0	1.4	3.6	1.7	5.3	2.4
Frequency		1.8	.82	2.7	1.2	3.3	1.5	5.0	2.3
Temperature		2.0	.95	3.0	1.4	3.6	1.7	5.3	2.4
Tachometer		1.6	.80	2.7	1.2	3.3	1.5	5.0	2.3
Synchroscope		1.7	.77	2.0	.91	3.1	1.4	4.0	1.8

*Subtract 0.5 lbs. for plastic case amp & volt.

Approximate Package Size in Inches / Centimeters

All AB/DB (Except AB-DB-16)	6 x 6 x 11 / 15 x 15 x 28
Shipping	7 x 7 x 13 / 18 x 18 x 33
AB-DB-16	10 x 10 x 11 / 25 x 25 x 28
Shipping	11 x 11 x 13 / 28 x 28 x 33

SWITCHBOARD INSTRUMENT SELECTOR GUIDE

Model Type	AB/DB40	AB/DB40	AB/DB16	Dual-Vue	AB/DB17	AB40 Hour	AB/DB14	T/180	T/2180
Case style	4 1/4" Metal	4 1/4" Plastic	8 3/4"	4 1 1/4" Metal	Illuminated	Meters	High-shock	6" Edgewise	Mini-swbd.
Input rating									
AC Milliamperes	X	X	X	N/A	N/A	N/A	X	X	X
AC Amperes	X	X	X	X	N/A	N/A	X	X	X
AC Voltage	X	X	X	X	N/A	X	X	X	X
DC Microamperes	X	X	X	N/A	N/A	N/A	X	X	X
DC Milliamperes	X	X	X	N/A	X	N/A	X	X	X
DC Amperes	X	X	X	X	X	N/A	X	X	X
DC Millivolts	X	X	X	N/A	X	N/A	X	X	X
DC Voltage	X	X	X	X	X	N/A	X	X	N/A
Frequency	X	*	X	N/A	N/A	N/A	*	*	X
AC Watts	X	*	X	N/A	N/A	N/A	*	*	*
AC VARS	X	*	X	N/A	N/A	N/A	*	*	*
Power Factor	X	*	X	N/A	N/A	N/A	*	*	X
RTD Temperature	X	*	X	N/A	*	N/A	*	*	*
AC Synchroscope	X	N/A	X	N/A	N/A	N/A	N/A	N/A	N/A
RPM Indicator	X	X	X	N/A	X	N/A	X	X	X
Process indicator	X	X	X	N/A	X	N/A	X	X	X
Ground detector	X	X	X	N/A	X	N/A	N/A	X	X
Back-lit	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes: * Requires external transducer, X = available, N/A = Not available in this model, † = rectifier type.

AB/DB Switchboard specifications in accordance with ANSI C39.1

Accuracy: ±1.0% of full scale basic accuracy class.

Specific accuracies:

Rectifier type meter- ±1.5% @ 25°C calibrated to sine wave.

Expanded Scale Voltmeter- 0.3% of mid-scale.

Power factor meter- ±1% of scale length from 20-100% of rated current on balanced system models; ±3% of scale length on unbalanced system model types.

Synchroscope- ±1% of scale length.

Frequency meters- ± .15Hz @45-55Hz and 55-65Hz, ±0.093Hz @ 58-62Hz, ±1.5Hz @350-450Hz.

Position of use: Vertical (scale)

Full scale deflection angle: 250°, except synchroscope is 360°

Full scale length:

AB/DB40, AB/DB14, AB/DB17- 6.9 inches.

AB/DB16- 13.8 inches.

Scale plate: AB/DB40, AB/DB14 platform type 2 piece scale with graduations on the outer scale; numerals and legends on the inner scale or one-piece lasered scale (standard). AB/DB16, has a one piece platform scale or flat lasered scale (standard), AB/DB17 see page 14.

Case: All AB/DB switchboard instruments have drawn steel case with zinc chromate coating except AB/DB40 plastic case which is ABS.

Cover: AB/DB14, AB/DB17 metal cover with polycarbonate window. AB/DB16, AB/DB40 polycarbonate-UL94V-0 cover and window.

Terminal plate: phenol resin material.

Mounting studs: 1/4" x 28 thread.

Terminal studs: 10-32 thread.

Operating temperature range: 0 to 40°C (32 to 104°F).

Storage temperature range: -10 to 50°C (14 to 122°F).

Extreme temperature range: -20°C to 65°C (-4 to 149°F).

Dielectric level: 2300VAC for 1 minute between the electrical circuit and mounting studs.

Overload rating: Voltmeter and potential coils-1.2 x rating (continuous).

AC Ammeters- 2 x rating (continuous), and 10 x rating for one second.

Current coils (other than ammeters) 1.5 x rating (continuous), and 10 x rating for one second.

Response time: Approximately 2.5 seconds (except AB/DB16)

UL File: E91703

CONTENTS

AB/DB Switchboard Instruments

Page 5	Key to Switchboard numbering system, how to order, shipping and storage weights.
Page 6	Selector guide, general specifications, catalog contents.
Page 7-10	AC/DC Ammeters, Voltmeters, Tach. indicators.
Page 11-13	Dual-Vue meters.
Page 14	DB17 general ratings and specifications.
Page 15	Power Factor, Frequency meters, Synchrosopes, Temperature meters.
Page 16	AB40 Hour meter.
Page 17	AC Wattmeters and Varmeters.
Page 18-23	Application guide for selection of Wattmeters and Varmeters.
Page 24	Optional features for AB/DB40 and AB/DB16.
Page 25	Switchboard minimum / maximum ratings.
Page 26	Switchboard specification and burden data.
Page 27-29	Standard connection drawings for AB/DB40 and AB/DB16.
Page 30-33	Dimensions and panel cutout drawings.

Type 180 Edgewise Instruments.

Page 34-36	General specifications, catalog numbers, Optional features, dimensions and cutouts.
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Type 2180 Miniature Switchboard Instruments

Page 37-38	General specifications, ordering information, dimensions and panel cutout.
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Rudder Meter

Page 39-40	General specifications, catalog numbers, Optional features, dimensions and cutouts.
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**AB-40
Metal Case**



**AB-40
Plastic Case**

AC Ammeters

Rating (Amperes)	Scale (Amperes)	AB-14 Cat. No.	AB-40 Metal Case	AB-40 Plastic Case	AB-16 Cat. No.
Self-Contained, 40/70 Hz					
1	0-1	101 133 LALA	103 131 LALA	103 131 LALA7/P	121 131 LALA
1.5	0-1.5	101 133 LCLC	103 131 LCLC	103 131 LCLC7/P	121 131 LCLC
2	0-2	101 133 LELE	103 131 LELE	103 131 LELE7/P	121 131 LELE
3	0-3	101 133 LJLJ	103 131 LJLJ	103 131 LJLJ7/P	121 131 LJLJ
5	0-5	101 133 LSLS	103 131 LSLS	103 131 LSLS7/P	121 131 LSLS
7.5	0-7.5	101 133 MFMF	103 131 MFMF	103 131 MFMF7/P	121 131 MFMF
10	0-10	101 133 MTMT	103 131 MTMT	103 131 MTMT7/P	121 131 MTMT
15	0-15	101 133 NDND	103 131 NDND	103 131 NDND7/P	121 131 NDND
20	0-20	101 133 NGNG	103 131 NGNG	103 131 NGNG7/P	121 131 NGNG
30	0-30	101 133 NLNL	103 131 NLNL	103 131 NLNL7/P	—
Transformer-Rated, 40/70Hz					
5	0-10	101 133 LSMT	103 131 LSMT	103 131 LSMT7/P	121 131 LSMT
5	0-15	101 133 LSND	103 131 LSND	103 131 LSND7/P	121 131 LSND
5	0-20	101 133 LSNG	103 131 LSNG	103 131 LSNG7/P	121 131 LSNG
5	0-25	101 133 LSNJ	103 131 LSNJ	103 131 LSNJ7/P	121 131 LSNJ
5	0-30	101 133 LSNL	103 131 LSNL	103 131 LSNL7/P	121 131 LSNL
5	0-40	101 133 LSNP	103 131 LSNP	103 131 LSNP7/P	121 131 LSNP
5	0-50	101 133 LSNT	103 131 LSNT	103 131 LSNT7/P	121 131 LSNT
5	0-75	101 133 LSPB	103 131 LSPB	103 131 LSPB7/P	121 131 LSPB
5	0-100	101 133 LSPK	103 131 LSPK	103 131 LSPK7/P	121 131 LSPK
5	0-150	101 133 LSPZ	103 131 LSPZ	103 131 LSPZ7/P	121 131 LSPZ
5	0-200	101 133 LSRL	103 131 LSRL	103 131 LSRL7/P	121 131 LSRL
5	0-250	101 133 LSR5	103 131 LSR5	103 131 LSR57/P	121 131 LSR5
5	0-300	101 133 LSRX	103 131 LSRX	103 131 LSRX7/P	121 131 LSRX
5	0-400	101 133 LSSC	103 131 LSSC	103 131 LSSC7/P	121 131 LSSC
5	0-500	101 133 LSSF	103 131 LSSF	103 131 LSSF7/P	121 131 LSSF
5	0-600	101 133 LSSJ	103 131 LSSJ	103 131 LSSJ7/P	121 131 LSSJ
5	0-800	101 133 LSSN	103 131 LSSN	103 131 LSSN7/P	121 131 LSSN
5	0-1000	101 133 LSSS	103 131 LSSS	103 131 LSSS7/P	121 131 LSSS
5	0-1200	101 133 LSSV	103 131 LSSV	103 131 LSSV7/P	121 131 LSSV
5	0-1500	101 133 LSTC	103 131 LSTC	103 131 LSTC7/P	121 131 LSTC
5	0-2000	101 133 LSTM	103 131 LSTM	103 131 LSTM7/P	121 131 LSTM
5	0-2500	101 133 LSTV	103 131 LSTV	103 131 LSTV7/P	121 131 LSTV
5	0-3000	101 133 LSUA	103 131 LSUA	103 131 LSUA7/P	121 131 LSUA
5	0-4000	101 133 LSUE	103 131 LSUE	103 131 LSUE7/P	121 131 LSUE
5	0-5000	101 133 LSUJ	103 131 LSUJ	103 131 LSUJ7/P	121 131 LSUJ
5	0-6000	101 133 LSUP	103 131 LSUP	103 131 LSUP7/P	121 131 LSUP
5	0-7000	101 133 LSUS	103 131 LSUS	103 131 LSUS7/P	121 131 LSUS
5	0-8000	101 133 LSUW	103 131 LSUW	103 131 LSUW7/P	121 131 LSUW
Instruction Book: 4555K10P0701, Outline Dimensions: See pages 30 and 33					

SWITCHBOARD INSTRUMENTS



**AB-40
Metal Case**



**AB-40
Expanded Scale**

AC Voltmeters

Rating (Volts)	Scale (Volts)	AB-14 Cat. No.	AB-40 Metal Case	AB-40 Plastic Case	AB-16 Cat. No.
Self-Contained, 50/60 Hz					
150	0-150	101 023 PZPZ	103 021 PZPZ	103 021 PZPZ7/P	121 021 PZPZ
250	0-250	101 023 RSRS	103 021 RSRS	103 021 RSRS7/P	121 021 RSRS
300	0-300	101 023 RXRX	103 021 RXRX	103 021 RXRX7/P	121 021 RXRX
500	0-500	101 023 SFSF	103 021 SFSF	103 021 SFSF7/P	121 021 SFSF
600	0-600	101 023 SJSJ	103 021 SJSJ	103 021 SJSJ7/P	121 021 SJSJ
750 _s	0-750	**	103 021 SMSM	103 021 SMSM7/P	121 021 SMSM
Transformer-Rated, 50/60 Hz					
150	0-300	101 023 PZRX	103 021 PZRX	103 021 PZRX7/P	121 021 PZRX
150	0-600	101 023 PZSJ	103 021 PZSJ	103 021 PZSJ7/P	121 021 PZSJ
150	0-750	101 023 PZSM	103 021 PZSM	103 021 PZSM7/P	121 021 PZSM
150	0-3000	101 023 PZUA	103 021 PZUA	103 021 PZUA7/P	121 021 PZUA
150	0-5250	101 023 PZUL	103 021 PZUL	103 021 PZUL7/P	121 021 PZUL
150	0-6000	101 023 PZUP	103 021 PZUP	103 021 PZUP7/P	121 021 PZUP
150	0-9000	101 023 PZUY	103 021 PZUY	103 021 PZUY7/P	121 021 PZUY
150	0-15kV	101 023 PZWZ	103 021 PZWZ	103 021 PZWZ7/P	121 021 PZWZ
150	0-18kV	101 023 PZXE	103 021 PZXE	103 021 PZXE7/P	121 021 PZXE
150	0-45kV	101 023 PZXU	103 021 PZXU	103 021 PZXU7/P	121 021 PZXU
150	0-150kV	101 023 PZYR	103 021 PZYR	103 021 PZYR7/P	121 021 PZYR
250	0-600V	101 023 RSSJ	103 021 RSSJ	103 021 RSSJ7/P	121 021 RSSJ
Expanded Scale, Self-Contained, 50/60 HZ					
110-130	110-130	**	103 071 PNP	103 071 PNP7/P	121 071 PNP
Expanded Scale, Transformer Rated, 50/60 HZ					
110-130	†	**	103 071 PN . *	103 071 PN..7/P*	121 071 PN . *
Rectifier Type, 1.5% Accuracy, 20 to 3000 Hz					
15	0-15	**	103151NDND	103151NDND 71P	121151NDND
30	0-30	**	103151NLNL	103151NLNL 71P	121151NLNL
150	0-150	**	103151PZPZ	103151PZPZ 71P	121151PZPZ
150	†	**	103151PZ*	103151PZ* 71P	121151PZ*
300	0-300	**	103151RXRX	103151RXRX 71P	121151RXRX
600	0-600	**	103151STST	103151STST 71P	121151SJSJ
Ground Detector Type — Single-Phase 50/60 Hz					
150	0-150	**	103 021 PZPZ	103 021 PZPZ7/P	121 021 PZPZ
150	†	**	103 021 PZ . *	103 021 PZ . *7/P	121 021 PZ . *
300	0-300	**	103 021 RXRX	103 021 RXRX7/P	121 021 RXRX
600	0-600	**	103 021 SJSJ	103 021 SJSJ7/P	121 021 SJSJ
Instruction Book: 4555K10P0701, Outline Dimensions: see pages 30 and 33					

_s UL version not available.

* Order by description. Specify P.T. (Potential Transformer) ratio if used, and scale desired.

** High shock version not available.

† Scale per requisition. AB/DB models have maximum 4 digits as standard.

DC Ammeters Self-Contained

Scale and Rating	DB-14 Cat. No.	DB-40 Metal Case	DB-40 Plastic Case	DB-16 Cat. No.
Microammeters — Zero-Left				
0-200	**	103 111 EAEA	103 111 EAEA7/P	—
0-300	101 113 EGEg	103 111 EGEg	103 111 EGEg7/P	121 111 EGEg
0-500	101 113 EMEM	103 111 EMEM	103 111 EMEM7/P	121 111 EMEM
Milliammeters — Zero-Left				
s 0-1	101 113 FAFA	103 111 FAFA	103 111 FAFA7/P	121 111 FAFA
0-2	101 113 FGFG	103 111 FGFG	103 111 FGFG7/P	121 111 FGFG
0-5	101 113 FFXF	103 111 FFXF	103 111 FFXF7/P	121 111 FFXF
0-10	101 113 GZGZ	103 111 GZGZ	103 111 GZGZ7/P	121 111 GZGZ
0-30	101 113 HMHM	103 111 HMHM	103 111 HMHM7/P	121 111 HMHM
0-50	101 113 HYHY	103 111 HYHY	103 111 HYHY7/P	121 111 HYHY
0-100	101 113 JRJR	103 111 JRJR	103 111 JRJR7/P	121 111 JRJR
0-200	101 113 KAKA	103 111 KAKA	103 111 KAKA7/P	121 111 KAKA
0-300	101 113 KGKG	103 111 KGKG	103 111 KGKG7/P	121 111 KGKG
0-500	101 113 KMKM	103 111 KMKM	103 111 KMKM7/P	121 111 KMKM
Milliammeters — Suppressed-Zero (No zero set unless otherwise specified)				
10-50	101 193 HX...†	103 191 HX...†	103 191 HX...†7/P	121 191 HX...†
s 4-20	101 193 HE...†	103 191 HE...†	103 191 HE...†7/P	121 191 HE...†
1-5	101 193 FY...†	103 191 FY...†	103 191 FY...†7/P	121 191 FY...†
Ammeters — Zero-Left				
0-1	101 113 LALA	103 111 LALA	103 111 LALA7/P	121 111 LALA
0-5	101 113 LSLs	103 111 LSLs	103 111 LSLs7/P	121 111 LSLs
0-10	101 113 MTMT	103 111 MTMT	103 111 MTMT7/P	121 111 MTMT
0-15	101 113 NDND	103 111 NDND	103 111 NDND7/P	121 111 NDND
0-20	101 113 NGNG	103 111 NGNG	103 111 NGNG7/P	121 111 NGNG
0-30	101 113 NLNL	103 111 NLNL	103 111 NLNL7/P	121 111 NLNL

Instruction Book: 4555K10P0701, Outline Dimensions: see pages 23 and 24

s See page 34 and 35 for Matching Power Transducer or Isolator.

† Scale per requisition. (AB/DB-40/16) have a maximum of 4 digits as standard.

** High shock version not available.

DB-40 Metal Case



DB-40 Plastic Case



DC Ammeters Shunt-Rated

Rating (Millivolts)	Scale (Amperes)	DB-14 Cat. No.	DB-40 Metal Case	DB-40 Plastic Case	DB-16 Cat. No.
With Lead Length Compensator, Catalog Number Does Not Include Shunt or Shunt Leads					
50	*	**	103 121 AB...	103 121 AB...7/P	121 121 AB...
50-0-50	*	101 124 AB...	103 122 AB...	103 122 AB...7/P	121 122 AB...
100	*	101 123 AE...	103 121 AE...	103 121 AE...7/P	121 121 AE...
100-0-100	*	101 124 AE...	103 122 AE...	103 122 AE...7/P	121 122 AE...
Zero-Left for Use with 50mV Shunts and 0.05-Ohm Shunt Leads, (Standard 5-Foot Leads). s					
See page 37 for External Shunts (Shunts and Leads are not included with meter).					
50	0-15	101 123 CAND	103 121 CAND	103 121 CAND7/P	121 121 ECND
50	0-20	101 123 CANG	103 121 CANG	103 121 CANG7/P	121 121 ECNG
50	0-30	101 123 CANL	103 121 CANL	103 121 CANL7/P	121 121 ECNL
50	0-40	101 123 CANP	103 121 CANP	103 121 CANP7/P	121 121 ECNP
50	0-50	101 123 CANT	103 121 CANT	103 121 CANT7/P	121 121 ECNT
50	0-75	101 123 CAPB	103 121 CAPB	103 121CAPB7/P	121 121 ECPB
50	0-100	101 123 CAPK	103 121 CAPK	103 121 CAPK7/P	121 121 ECPK
50	0-150	101 123 CAPZ	103 121 CAPZ	103 121 CAPZ7/P	121 121 ECPZ
50	0-200	101 123 CARL	103 121 CARL	103 121 CARL7/P	121 121 ECRL
50	0-300	101 123 CARX	103 121 CARX	103 121 CARX7/P	121 121 ECRX
50	0-400	101 123 CASC	103 121 CASC	103 121 CASC7/P	121 121 ECSC
50	0-500	101 123 CASF	103 121 CASF	103 121 CASF7/P	121 121 ECSF
50	0-750	101 123 CASM	103 121 CASM	103 121 CASM7/P	121 121 ECSM
50	0-1000	101 123 CASS	103 121 CASS	103 121 CASS7/P	121 121 ECSS
50	0-1200	101 123 CASV	103 121 CASV	103 121 CASV7/P	121 121 ECSV
50	0-1500	101 123 CATC	103 121 CATC	103 121 CATC7/P	121 121 ECTC
50	0-2000	101 123 CATM	103 121 CATM	103 121 CATM7/P	121 121 ECTM
50	0-3000	101 123 CAUA	103 121 CAUA	103 121 CAUA7/P	121 121 ECUA

Instruction Book: 4555K10P0701, Outline Dimensions: see pages 30 and 33

** High shock not available

* Scale marked in terms of shunt current. When ordering specify rating of shunt to be used, scale and legend. AB/DB meter scales have a maximum of 4 digits.

‡ Shunt-rated instruments are normally calibrated for 5-foot shunt leads (0.050 Ohms). They can be calibrated for maximum resistances as follows: 50mV 100mV
2.0 Ohms 5.0 Ohms

DC Voltmeters

Rating and Scale (Volts)	DB-14 Cat. No.	DB-40 Metal Case	DB-40 Plastic Case	DB-16 Cat. No.
Zero-Left (Sensitivity is 1000 OHMS / Volt)				
0-15	101 013 NDND	103 011 NDND	103 011 NDND7/P	121 011 NDND
0-30	101 013 NLNL	103 011 NLNL	103 011 NLNL7/P	121 011 NLNL
0-50	101 013 NTNT	103 011 NTNT	103 011 NTNT7/P	121 011 NTNT
0-75	101 013 PBPB	103 011 PBPB	103 011 PBPB7/P	121 011 PBPB
0-150	101 013 PZPZ	103 011 PZPZ	103 011 PZPZ7/P	121 011 PZPZ
0-300	101 013 RXRX	103 011 RXRX	103 011 RXRX7/P	121 011 RXRX
0-400	101 013 SCSC	103 011 SCSC	103 011 SCSC7/P	121 011 SCSC
0-500	101 013 SFSF	103 011 SFSF	103 011 SFSF7/P	121 011 SFSF
0-600	101 013 SJSJ	103 011 SJSJ	103 011 SJSJ7/P	121 011 SJSJ
Zero-Center (Sensitivity is 2000 OHMS / Volt)				
150-0-150	101 014 PZPZ	103 012 PZPZ	103 012 PZPZ7/P	121 012 PZPZ
300-0-300	101 014 RXRX	103 012 RXRX	103 012 RXRX7/P	121 012 RXRX
500-0-500	101 014 SFSF	103 012 SFSF	103 012 SFSF7/P	121 012 SFSF
600-0-600	101 014 SJSJ	103 012 SJSJ	103 012 SJSJ7/P	121 012 SJSJ
Ground Detector Type — Zero-Center for 2-Wire Circuits (Standard Sensitivity is 1000 OHMS/Volt) ‡				
150-0-150	**	103 552 PZ†	103 552 PZ†7/P	121 552 PZ†
300-0-300	**	103 552 RX†	103 552 RX†7/P	121 552 RX†
500-0-500	**	103 552 SF†	103 552 SF†7/P	121 552 SF†
600-0-600	**	103 552 SJ†	103 552 SJ†7/P	121 552 SJ†
Instruction Book: 4555K10P0701, Outline Dimensions pages 30 and 34				

† Specify scale by order.

‡ Includes (2) 2227 External Resistors.

** High shock version not available.

Tachometer Indicators

DC Volts 103621RR55

Select nearest higher rated DC Voltmeter from above and specify requirements.

AC Volts 103631RR55

Select nearest higher rated rectifier type AC voltmeter from Page 8 and specify requirements.

Instruction Book 4555K15P0003

DB-40 Tachometer



DB-40 Metal Case

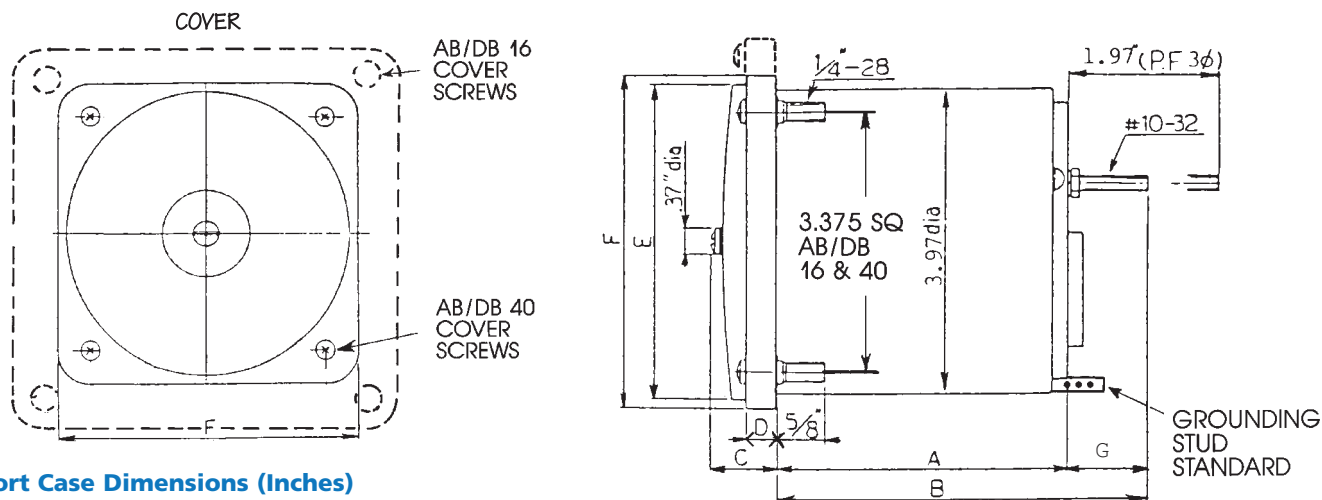


DB-40 Plastic Case



Dimensions and Panel Drilling For AB/DB 16 & AB/DB 40 (Metal Case)

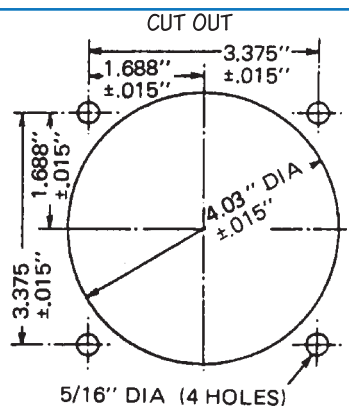
Short Case



Short Case Dimensions (Inches)

	AB / DB-40			AB / DB-16	
	AC V/A—DC V/A Frequency Temperature Tachometer Synchroscope	AC V/A—DC V/A Extra Short Case	Power Factor 1φ (3φ3w/4w)	AC V/A—DC V/A Frequency Temperature Tachometer Synchroscope	Power Factor 1φ (3φ3w/4w)
A	3.79	2.89	3.79	3.75	3.75
B	4.85	3.41	4.85 (5.76)	4.81	4.81 (5.72)
C	0.86	0.86	0.86	0.88	0.88
D	0.32	0.32	0.32	0.38	0.38
E	4.09	4.09	4.09	8.20	8.20
F	4.33	4.33	4.33	8.69	8.69
G	1.06	0.52	1.06	1.06	1.06

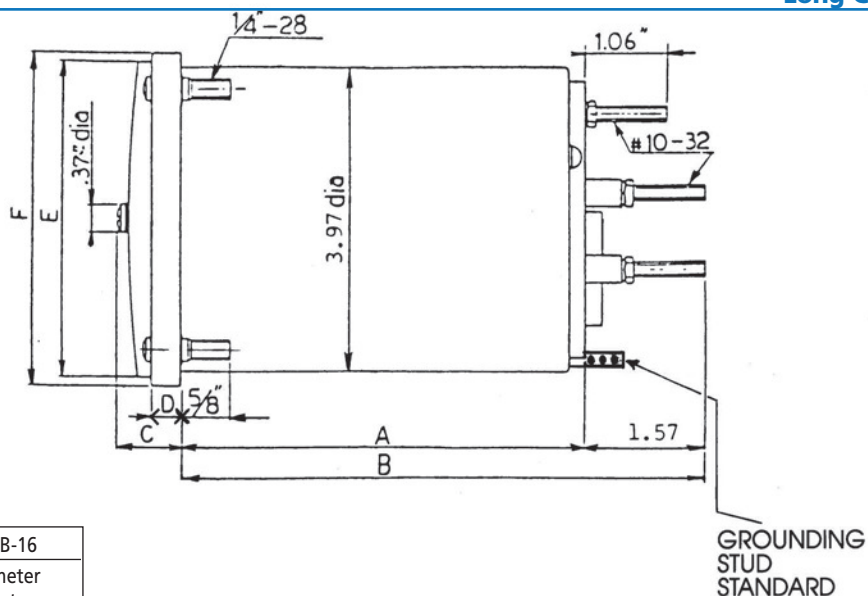
Long Case



Cut-out and Panel Drilling Dimensions.
AB/DB 40 & 16

Long Case Dimensions (Inches)

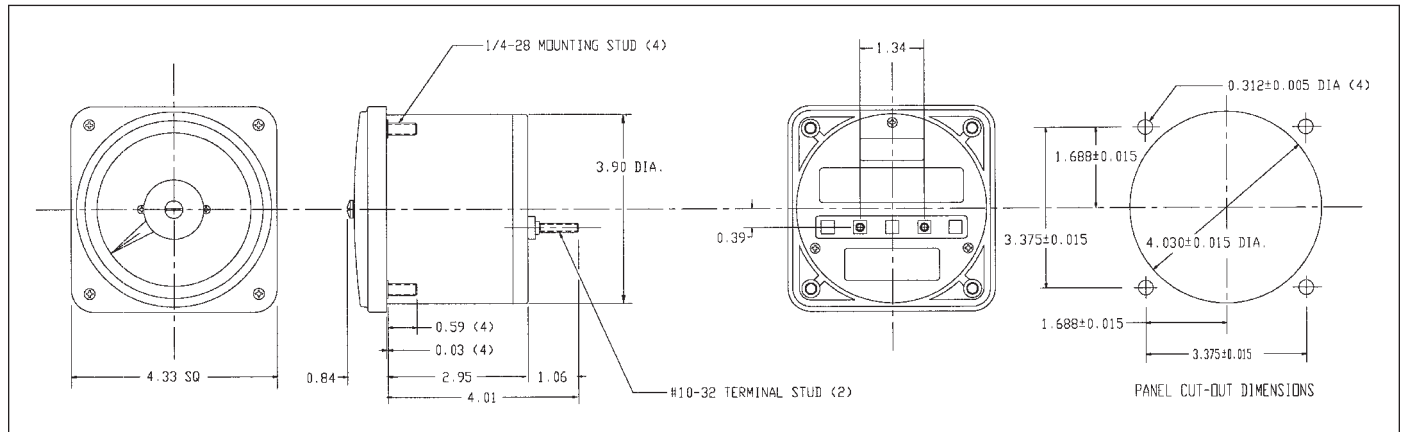
	AB / DB-40	AB / DB-16
	Wattmeter Varmeter*	Wattmeter Varmeter
A	5.22	5.19
B	6.79	6.76
C	0.86	0.88
D	0.32	0.38
E	4.09	8.20
F	4.33	8.69



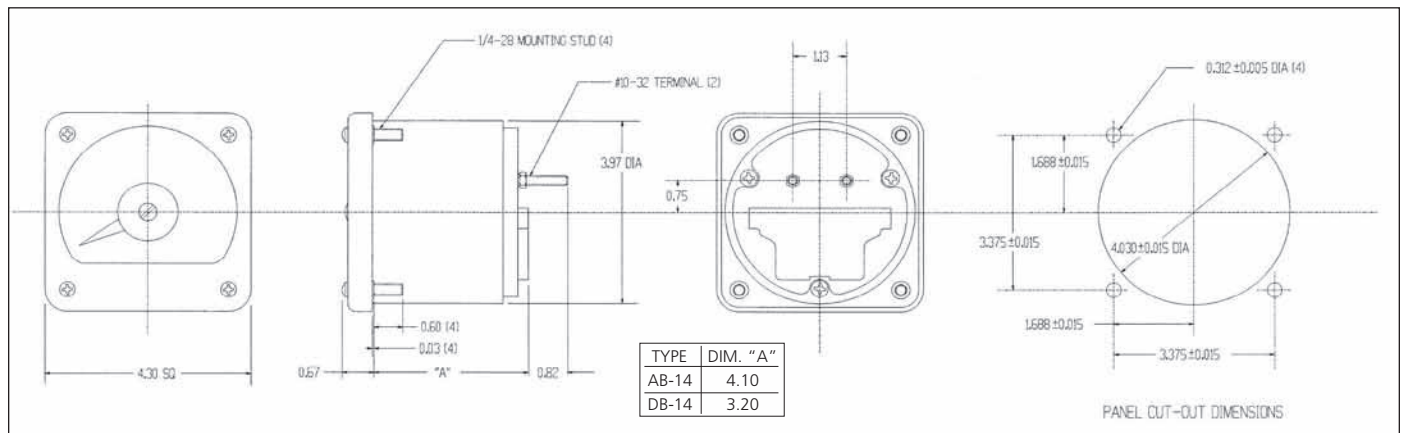
*Short case dimensions in first column above apply to varmeter for use with external phase shifters (10332—, 10377—, 10334—, 10379—.)

DIMENSIONS AND PANEL DRILLING

Plastic case AB / DB40 Ammeters and Voltmeters



High shock AB / DB14 Ammeters and Voltmeters



Illuminated AB / DB17 Railroad type Ammeters and Voltmeters

