



**Automatic  
Electric Ltd.**

(CIN U99999MH1960PLC011780)

# PRICE LIST

**PRICE LIST WITH EFFECT FROM 01/04/2022**

**Electrical Measuring Instrument Division**

HT-CT/PT DIVISION : PLOT NO. B - 75, MIDC AREA, ADDITIONAL INDUSTRIAL AREA, ANAND NAGAR, AMBERNATH (E), DIST. THANE TEL. NO.: 0251-2621770/1  
POWER SYSTEM DIVISION : 96 / 98 AB LONAVLA INDUSTRIAL ESTATE, NANGARGAON, LONAVLA - 410 401. TEL. NO. : 91-2114/323665 FAX : 91-2114/273482  
METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

**BRANCHES AT :**

	<b>DELHI</b>	<b>BANGALORE</b>	<b>CHENNAI</b>	<b>KOLKATA</b>	<b>SECUNDERABAD</b>	<b>PUNE</b>
Tel.	: 011-23217142	080-22242095	044-25383939	033-22369735 / 9627	040-27538982	9520-24336372
Fax	: 011-23215913	080-22220136	044-25383979	033-22369145	040-27538982	9520-24320908
E-MAIL	: sood@nde.vsnl.net.in	aelbang@blr.vsnl.net.in	ael@md4.vsnl.net.in	ael@cal.vsnl.net.in	baburao168@yahoo.co.in	shreebal@vsnl.net



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(CIN U99999MH1960PLC011780)

## 1. VOLTMETERS AND AMMETERS 90°

SHAPE	SQUIRE FLUSH				ROUND FLUSH		ROUND	
							PROJECTING	PEDESTAL
BEZEL	48 x 48	72 x 72	96 x 96	144 x 144	83 DIA	135 DIA		113 DIA
PANEL CUT.	45X45 <sup>+0.6</sup>	68X68 <sup>+0.7</sup>	92X92 <sup>+0.8</sup>	138X138 <sup>+1</sup>	67 DIA	113DIA.	75 DIA	-
DEPTH IN PANEL	45	50	50	60	50	50	50	-
SCALE LENGTH. (APPROX)	40	60	90	145	60	90	90	90

### A) D.C. VOLTMETERS [ MOVING COIL. ]

ACC. CL.		2.5	1.5	1.5	1	2	1.5	1
RANGE	RANGE	MODEL						
MIN.	MAX.	SMC - 48	SMC - 72	SMC - 96	SMC - 144	2DFM		
0 - 10mV.	0 - 40mV.	--	690	740	1285	680		--
0 - 50mV.	0 - 30V.	1045	690	810	1285	680		--
0 - 40V.	0 - 300V.	1045	795	865	1305	700		--
0 - 400V.	0 - 600V.	1115	865	920	1375	865		--
0 - 750V.	0 - 1000V.	1745**	1295**	1365*	1805	--	--	--

### B) D.C. AMMETERS [ MOVING COIL. ]

ACC. CL.		2.5	1.5	1.5	1	2	1.5	1
RANGE	RANGE	MODEL						
MIN.	MAX.	SMC - 48	SMC - 72	SMC - 96	SMC - 144	2DFM		--
0 - 250mA.	0 - 400mA.	--	810	865	1375	865		--
0 - 500mA.	0 - 800mA.	1045	810	865	1375	865		--
0 - 1mA.	0 - 8A.	1045	690	735	1175	690		--
0 - 10A. #	0 - 30A. #	1045	690	735	1175	690		--
0 - 40A. #.#	0 - 12kA. #.#	1015	690	735	1175	690		--

### C) A.C. VOLTMETERS. [ MOVING COIL- RECTIFIER TYPE. ]

ACC. CL.				1.5	1.5	--	1.5	1.5	1.5
RANGE	RANGE	MODEL							
MIN.	MAX.			SMR - 96	SMR - 144	2DFRM			--
0 - 6V.	0 - 30V.			1360	1655	--			--
0 - 40V.	0 - 300V.			1455	1925	--			--
0 - 400V.	0 - 600V.			1455	1925	--			--
0 - 750V.	0 - 1000V.			1885	2360	--	--	--	--

HT-CT/PT DIVISION : PLOT NO. B - 75, MIDC AREA, ADDITIONAL INDUSTRIAL AREA, ANAND NAGAR, AMBERNATH (E), DIST. THANE TEL. NO.: 0251-2621770/1  
 POWER SYSTEM DIVISION : 96 / 98 AB LONAVLA INDUSTRIAL ESTATE, NANGARGAON, LONAVLA - 410 401. TEL. NO. : 91-2114/323665 FAX : 91-2114/273482  
 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

#### BRANCHES AT :

DELHI	BANGALORE	CHENNAI	KOLKATA	SECUNDERABAD	PUNE
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### D) A.C. AMMETERS. [ MOVING COIL - RECTIFIER TYPE. ]

ACC. CL.		--	1.5	1.5	--	1.5	1.5	1.5
RANGE	RANGE	MODEL						
MIN.	MAX.		SMR - 96	SMR - 144				
0 - 10mA.	0 - 50mA.		1170	1655				--
0 - 75mA.	0 - 750mA.		1365	1850				--
0-1A	0-8A		1445	2035				--
0 - 10A.	0 - 30A.		1445	2035				--

### E) A.C. VOLTMETERS. [ MOVING IRON. ]

ACC. CL.		1.5	1.5	1	2	1	1	1
RANGE	RANGE	MODEL						
MIN.	MAX.	SMI - 48	SMI - 72	SMI - 96	SMI - 144	2DFI		
0 - 15 V.	0 - 120V.	-	440	505	740	425		
0 - 150V.	0 - 300V.	820.00	440	505	740	425		
0 - 400V.	0 - 600V.	-	505	535	790	440		
0 - 750V.	0 - 1000V.	-	915*	915*	1195*	--	--	--

\*With Built-in Resistance \*\* With External Resistance Box # With Internal Shunt ##With External Shunt ( Shunt Price Extra)

### F) A.C. AMMETERS. [ MOVING IRON. ]

ACC. CL.		2.5	1.5	1.5	1	2	1	1	1
RANGE	RANGE	MODEL							
MIN.	MAX.	SMI - 48	SMI - 72	SMI - 96	SMI - 144	2DFI			
0 - 500mA.	0 - 8A.	825	415	455	650	365			
0 - 10A.	0 - 30A.	825	415	455	650	365			
0 - 40A.	0 - 100A.	--	505	535	755	440			
0 - 120A.	0 - 200A.	--	--	645	885	--			

### SPECIAL A.C. VOLTMETERS [ MOVING IRON. ACC. CL 1.5% ]

A. C. VOLTMETERS WITH SELECTER SWITCH					A. C. DOUBLE SCALE VOLTMETERS.				
RANGE			VSS-72A.	VSS-96A.	RANGE[m]	RANGE[M]	SIF - 96.	SIF - 144.	
0 - 120V.	L1 - L2, L2 - L3, L3 - L1, L1 - N, L2 - N, L3 - N.		1000	1185	0 - 120V.	0 - 400V.	1345	1760	
0 - 500V.			1000	1185	0 - 500V.	0 - 600V.	1385	1810	

### BIMETALIC A. C. DEMAND METERS [ ACC. CL3% ] & MOVING IRON A.C. AMMETERS [ ACC. CL1.5% ]

CT SEC. [I]	OVER LOAD	TIME - LAG	MDIS - 96 A.		MDID - 96 A.	
0 - 1A.	0%	8MIN.	1250	2-POINTERS TO READ MAXIMUM DEMAND ON BIMETALIC AMMETER	1545	3-POINTERS MAXIMUM DEMAND ON BIMETALIC + INSTANTANEOUS READING ONMOVING IRON
	20%					
	0%	15 MIN				
	20%					
0 - 5A.	0%	8MIN.	1200	MDIS-72A	1465	MDID-72A
	20%					
	0%	15 MIN				
	20%					

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OPTIONAL FEATURES FOR 90□ METERS		
	DESCRIPTION	PRICE
<b>BEZEL</b>	OTHER THAN BLACK FOR SQ.INST.	20
<b>GLASS</b>	SPARE GLASS	25
	ANTI GLARE GLASS	50
<b>CASE</b>	HIGHER KV CLASS ( WITH 4 kV)	30
<b>SCALE</b>	SINGLE SCALE TRIPLE STAMPING	20
	DOUBLE SCALE DOUBLE STAMPING	20
	COLOURED ARC	20
	COLOURED BAND	50
	NON STANDARD SCALE CALIBRATION	30
<b>ACCURACY</b>	BETTER ACC.CLASS OF 1.0% FOR SMR-144 OR 96X96 MM, 4 DFM 4DPM METERS	20
<b>FREQUENCY</b>	ABOVE 60Hz TO 400Hz. FOR MI AC & MC RECTIFIER TYPE METER	50
	ABOVE 400Hz TO 1000Hz. FOR MI AC & MC RECTIFIER TYPE METER	100
<b>DIAL</b>	SPARE DIAL	20
	CENTRE ZERO SCALE (MC DC METER)	50
<b>TERMINAL</b>	SHROUD	10
	REAR CAP	10
<b>RUBBER GASKET</b>	THIN RUBBER GASKET FOR SQ.INS.	20
	THICK RUBBER GASKET+M.S CLAMPS 72X72,96X96,144X144	75
<b>CLAMPS</b>	MOSAIC GRID MOUNTING FOR SQ.INST.	50
<b>SUPPRESSION</b>	INITIAL SUPPRESSED (SMI-96 & 144 )	50
	END SUPPRESSED UPTO 6 TIMES FOR MI AC AMMETERSEXCEPT SMI-48	15
	END SUPPRESSED FOR MI AC AMMETERS 8 TIMES EXCEPT SMI-48,	50
	END SUPPRESSED UPTO 6 TIMES FOR SMI 48 AMMETERS	50
<b>POINTER</b>	KNIFE EDGE POINTER FOR 961444"	30
	MI ACMC DC AMMETER MIRROR SCALE FOR 96144 MM METER	100
	10KW SENSITIVITY FOR SMC-144 VOLTMETER	100
<b>PROTECTION</b>	IP-54 PROTECTION	75

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(CIN U99999MH1960PLC011780)

2. VOLTMETER AND AMMETER 240°					
SHAPE	SQUIRE FLUSH				
BAZEL (mm)	48 X 48	72 x 72	96 x96	144 x 144	110 X 110
PANEL CUT. (mm)	45X45 <sup>+0.6</sup>	68X68 <sup>+0.7</sup>	92X92 <sup>+0.8</sup>	138X138 <sup>+1</sup>	100f*
DEPTH IN PANEL (mm)	45	50	50	60	100
SCALE LENGTH. (mm)	70 - 75	105 -110	150 - 155	225 - 230	175 - 180
ACC. CL.	2.50%	1.50%	1.50%	1.50%	1.50%
<b>D.C. VOLTMETER [ MOVING COIL]</b>					
RANGE MIN.	RANGE MAX.	MODEL			
		SQ72	SQ96	SQ144	SQ110
0-60mV	0-150mV	1170	1210	1455	1760
0-300mV	0 - 750mV	1170	1210	1455	1760
0 - 1V	0 - 600V	1170	1210	1455	1760
0-750V	0 - 1000V	1450*	1520*	1720*	1760*
<b>D.C. AMMETER [ MOVING COIL]</b>					
RANGE MIN.	RANGE MAX.	MODEL			
		SQ72	SQ96	SQ144	SQ110
0-500mA	0 - 750mA	1170	1210	1455	1760
0 - 1A.	0 - 8A	1170	1210	1455	1760
0 - 10A #	0 - 30A #	1170	1210	1455	1760
0 - 40A ##	0 -1000A ##	1170	1210	1455	1760
<b>A.C. VOLTMETER [RECTIFIER TYPE]</b>					
RANGE MIN.	RANGE MAX.	MODEL			
		SQ72	SQ96	SQ144	SQ110
0 - 10V.	0 - 30V.	1195	1330	1515	1760
0 - 40V.	0 - 300V.	1195	1330	1515	1760
0 - 400V.	0 - 600V.	1195	1330	1515	1760
0 - 750V.	0 - 1000V.	1550*	1620*	1805*	1760*

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A. C. AMMETER [RECTIFIER TYPE]					
RANGE MIN.	RANGE MAX.	MODEL			
		SQ72	SQ96	SQ144	SQ110
0 - 10mA.	0 - 50mA.	1315	1330	1515	1760
0 - 75mA.	0 - 750mA.	1315	1330	1515	1760
0 - 1A.	0 - 8A.	1315	1330	1515	1760
0 - 10A.	0 - 30A.	1315	1330	1515	1760

\* With Built-in Resistance \*\* With External Resistance Box. # With Internal Shunt ## With External Shunt ( Shunt Price Extra)STANDARD RANGES :- 1 , 1.2 , 1.5 , 2 , 2.5 , 3 , 4 , 5 , 6 , 7.5 , 8 . IT's MULTIPLE :- 10 , 12 , 15 , 20 , 25 , 30 , 40 , 50 , 60 , 75 , 80 . AND 100 , 120 , 150 , 200 , 250 , 300 , 400 , 500 , 600 , 750 , 800 . ~ 8000 = 8k FOR EXAMPLE :- 2A , 20A , 200A , 2kA . / 120V , 12kV. etc.

		DESCRIPTION	PRICE
<b>OPTIONAL FEATURES FOR MOVING COIL 240 □ INSTRUMENTS</b>	BEZEL	OTHER THAN BLACK FOR SQ. INST.	20
	GLASS	SPARE GLASS	50
		ANTI GLARE GLASS	50
	CASE	HIGHER KV CLASS	50
	SCALE	SINGLE SCALE TRIPLE STAMPING	50
		DOUBLE SCALE DOUBLE STAMPING	50
		COLOURED ARC	20
		COLOURED BAND	50
	CALIBRATION	NON STANDARD SCALE CALIBRATION	30
		1.0% ACCURACY CLASS IN 96 X 96 , 110 x 110 , 144 x 144 mm	50
		CENTRE ZERO SCALE (DC METERS)	50
	FREQUENCY	AT FREQUENCY (150 Hz ~ 400 Hz)	100
	SUPPRESSION	ABOVE 60Hz TO 400Hz. FOR MI AC & MC RECTANGULAR AC METER	50
		INITIAL SUPPRESSION EXCEPT 48 X 48	100
	DIAL	END SUPPRESSED 6 TIMES (FOR AC) AND END SUPPRESSED 2TIMES (FOR DC)	50
		SPARE DIAL FOR 72 X 72, 96 X 96 BASE COLOUR - BLACK	50
	RANGE	LOWER THAN NORMAL 72 X 72, 96 X 96, 144 X 144	50
		HIGHER THAN NORMAL 72 X 72, 96 X 96, 144 X 144	100
	TERMINAL	ADDITIONAL FOR 72 X 72, 96 X 96, 144 X 144 . VOLTMETER	150
		SHROUD	10
REAR CAP		10	
RUBBER GASKET	THIN RUBBER GASKET FOR SQ. INST.	20	
	THICK RUBBER GASKET ROUND FLUSH INST.	20	
	THICK RUBBER GASKET+M.S CLAMPS 72X72, 96X96, 144X144	75	
CLAMPS	MOSAIC GRID MOUNTING FOR SQUARE INST.	50	
PROTECTION	IP 54	75	

HT-CT/PT DIVISION : PLOT NO. B - 75, MIDC AREA, ADDITIONAL INDUSTRIAL AREA, ANAND NAGAR, AMBERNATH (E), DIST. THANE TEL. NO.: 0251-2621770/1  
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(CIN U99999MH1960PLC011780)

### 3. POWER METER

BAZEL	PANEL CUT				ACCURACY CLASS.				SCALE LENGTH			
96 X 96	92 X 92 <sup>+0.8</sup>				1.5 % WATT, VAR. VA. & 2° for POWER FACTOR.				80 mm approx.			
144 X 144	138 X 138 <sup>+1.0</sup>				1.5 % WATT, VAR. VA. & 2° for POWER FACTOR.				140 mm approx.			
MODEL	WATT METER				VAR METER				PF METER			
PANEL DEPTH (mm)	1P	3P-1E	3P-2E	3P-3E*	1P	3P-1E	3P-2E	3P-3E *	1P	3P-1E	3P-2E	3P-3E
S 96	80	80	100	100	--	--	100	--	80	80	125	100
S 144	85	85	125	165	--	--	125	165	125	125	165	125

#### SINGLE PHASE POWER METER [ DYNAMOMETER TYPE ]

MODEL	POTENTIAL COIL	CURRENT COIL	WATT	VAR	P. F.
96	110V / 230V / 440V OR	0.5A / 1A. / 2A. OR	1850		2515
S 144	150V / 300V / 600V.	2.5A. / 5A. / 10A.	2515		2780

#### THREE PHASE POWER METER [ DYNAMOMETER TYPE. ]

MODEL	POTENTIAL	CURRENT	WATTMETERS.			VARMETERS.			
			3Ph. - 1El.	3Ph. - 2El.	3Ph. - 2 1/2 El / 3Ph-4W	3Ph. - 1El.	3Ph. - 2El.	3Ph. - 2 1/2 El / 3Ph-4W	
S 96	110 V	1 A. / 5 A.	2890	3845	4670		4200	5090	
	440 V								
S 144	110 V	1 A. / 5 A.	3120	4335	5245		4625	5550	
	440 V								
MODEL	POTENTIAL	CURRENT	VA METER			PF METER			
			3Ph. - 1El.	3Ph. - 2El.	3Ph. - 3El.	1Ph. - 1El.	3Ph. - 1El.	3Ph. - 2El.	3Ph. - 3El.
S 96	110 V. / 440 V.	1 A. / 5 A.	AVAILABLE IN MOVING COIL			2515	3030	4515	5325
S 144	110 V. / 440 V.	1 A. / 5 A.	BUILT IN TRANSDUCER TYPE.			2775	3345	5325	5850

#### Standard scale range :-

Upper limit of the measuring range for meters shall be one of the following values.

1, 1.2, 1.5, 2, 2.5, 3, 4, 5, 6, 7.5, 8. OR IT'S MULTIPLE

10, 12, 15, 20, 25, 30, 40, 50, 60, 75, 80, ~ 800. TO 8000.

#### 1. Formula for Single-phase active power

$P(\max.) = VICOSj$  Where  $COSj = 1$ .

To calculate power range for a system with  $V = 500$ ,  $I = 2.5$  A

CALCULATED POWER =  $500 \times 2.5 \times 1 = 1.25kW$

1.25 lies within the range of 1.2 and 1.5 which are in above scale pattern

Hence 1.2kW or 1.5kW to be selected as the power range

#### 2. Formula for Three-phase active power

$P(\max.) = \sqrt{3} VICOSj \times PTR. \times CTR.$  Where  $COSj = 1$ .

To calculate power range for a system with  $V = 110V$ ,  $I = 5$  A,  $PTR = 400kV / 110V$ ,  $CTR = 1000 / 5A$

CALCULATED POWER =  $\sqrt{3} \times 110 \times 5 \times 1 \times (400 \times 1000 / 110) \times (1000 / 5) = 692MW$

692 lies within the range of 600 and 750 which are in above scale pattern

Hence 0-600MW or 750MW to be selected as the power range

All active power measuring instruments are calibrated at  $COSj = 1$

and reactive power measuring instruments are calibrated at  $SINj = 1$

All low power factor power measuring instruments are calibrated at  $COSj = 0.2$  lag.

Watt and Var Meters in 96 x 96 mm for 3 Ph 4 Wire will be 2 Element.

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#### BRANCHES AT :

	DELHI	BANGALORE	CHENNAI	KOLKATA	SECUNDERABAD	PUNE
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E-MAIL :	sood@nde.vsnl.net.in	aelbang@blr.vsnl.net.in	ael@md4.vsnl.net.in	ael@cal.vsnl.net.in	baburao168@yahoo.co.in	shreebal@vsnl.net



# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## 4. POWER METER [ Transducer Operated ]

### POWER FACTOR METERS 90° MOVING COIL IN BUILT TRANSDUCER [ ACC. CL.2° ]

CURRENT	VLOTAGE	MODEL		72 X 72	96 X 96	144 X 144
1A. / 5A.	110V. / 440V.	3Ph. - 1EL.		1455	2170	2600

### POWER FACTOR METERS 240° MOVING COIL IN BUILT TRANSDUCER [ ACC. CL.2° ]

CURRENT	VLOTAGE	MODEL		72 X 72**	96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.		4145	4265	4420	4385
1A. / 5A.	110V. / 440V.	3Ph. - 1EL.		4145	4265	4420	4385

### ACTIVE POWER = WATTMETERS 240° MOVING COIL IN BUILT TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL			96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.			2800	2930	
		3Ph. - 1EL.					
		3Ph. - 2EL.			4125	4265	4210
		3Ph. - 3EL.			4125	4265	4210

### REACTIVE POWER = VAR METERS 240° MOVING COIL IN BUILT TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL	48 X 48	72 X 72	96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.			2800	2930	
		3Ph. - 1EL.					
		3Ph. - 2EL.			4125	4265	4210
		3Ph. - 3EL.			4125	4265	4210

### APPARENT POWER = VA-METERS 240° MOVING COIL IN BUILT TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL	48 X 48	72 X 72	96 X 96	144 X 144	
1A. / 5A.	110V. / 440V.	1 - Phase.			2930	3130	
		3Ph. - 1EL.					
		3Ph. - 2EL.			4265	4660	
		3Ph. - 3EL.			4265	4660	

### ACTIVE POWER = WATTMETERS 240° MOVING COIL EXTERNAL TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL		72 X 72**	96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.		2980	3055	3220	3130
		3Ph. - 1EL.					
		3Ph. - 2EL.		4230	4300	4475	4375
		3Ph. - 3EL.		4230	4300	4475	4375

\*\* To be used with External box

### REACTIVE POWER = VAR METERS 240° MOVING COIL EXTERNAL TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL	48 X 48	72 X 72**	96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.		2980	3055	3220	3140
		3Ph. - 1EL.					
		3Ph. - 2EL.		4230	4300	4475	4380
		3Ph. - 3EL.		4230	4300	4475	4380

### APPARENT POWER = VA-METERS 240° MOVING COIL EXTERNAL TRANSDUCER. [ ACC. CL 1.5% ]

CURRENT	VLOTAGE	MODEL	48 X 48	72 X 72	96 X 96	144 X 144	110 X 110
1A. / 5A.	110V. / 440V.	1 - Phase.					
		3Ph. - 1EL.					
		3Ph. - 2EL.		4620	4690	4865	4765
		3Ph. - 3EL.		4620	4690	4865	4765

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 POWER SYSTEM DIVISION : 96 / 98 AB LONAVLA INDUSTRIAL ESTATE, NANGARGAON, LONAVLA - 410 401. TEL. NO. : 91-2114/323665 FAX : 91-2114/273482  
 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

\*\* To be used with External box

OPTIONAL FEATURES FOR POWER METERS		
	DESCRIPTION	PRICE
BEZEL	OTHER THAN BLACK FOR SQ.INST.	20
GLASS	SPARE GLASS	50
	ANTI GLARE GLASS	100
CASE	HIGHER KV CLASS (WITH 4 kV)	50
SCALE	SINGLE SCALE TRIPLE STAMPING	50
	DOUBLE SCALE DOUBLE STAMPING	50
	COLOURED ARC	20
	COLOURED BAND	50
CALIBRATION	1.0% ACC. CLASS. EXCEPT (72 X 72 mm)	100
	AT FREQUENCY (150 Hz ~ 400 Hz)	150
DIAL	SPARE DIAL FOR 72 X 72, 96 X 96	50
CALIBRATION	CENTRE ZERO SCALE (FOR WATT & VAR)	100
RANGE	LOWER THAN NORMAL 72 X 72, 96 X 96, 144 X 144	50
	HIGHER THAN NORMAL 72 X 72, 96 X 96, 144 X 144	100
TERMINAL	SHROUD	10
	REAR CAP	10
RUBBER GASKET	THIN RUBBER GASKET FOR SQ.INST.	20
	THICK RUBBER GASKET ROUND FLUSH INST.	75
CLAMPS	MOSAIC GRID MOUNTING FOR SQUARE INST.	50

HT-CT/PT DIVISION : PLOT NO. B - 75, MIDC AREA, ADDITIONAL INDUSTRIAL AREA, ANAND NAGAR, AMBERNATH (E), DIST. THANE TEL. NO.: 0251-2621770/1  
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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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# PRICE LIST

(CIN U99999MH1960PLC011780)

## 5. FREQUENCY METER

### FREQUENCY METERS [VIBATING REED TYPE.]

RANGE	MODEL	ROW	RESOLUTION	INPUT	RFS-72	RFS - 96	RFS - 144	INPUT	RFS-72	RFS - 96	RFS - 144
47 ~ 53Hz.	13 REEDS	SINGLE	0.5Hz.	110V/230V /440V	860	1000	1235	63.5V	1520	1550	1890
45 ~ 55Hz.	13 REEDS		1 Hz.		860	1000	1290		1520	1550	1890
45 ~ 55Hz.	21 REEDS		0.5Hz.		-	-	2280		-	-	2940
RANGE	MODEL	ROW	RESOLUTION	INPUT		RFD - 96	RFD - 144	INPUT		RFD - 96	RFD - 144
47 ~ 53Hz.	13 REEDS	DOUBLE	0.5Hz.	110V/230V /440V		1990	2815	63.5V		2650	3475
45 ~ 55Hz.	13 REEDS		1 Hz.			1990	2815			2650	3475
45 ~ 55Hz.	21 REEDS		0.5Hz.			-	4730			-	5390

### FREQUENCY METERS [BLINKING LED TYPE.]

RANGE	INPUT	ROW	RESOLUTION	MODEL	ELFS - 72	ELFS - 96	ELFS - 144
47 ~ 53Hz.	110V / 230V / 440V.	SINGLE	0.5	13 LEADS	650	760	930
45 ~ 55Hz.			1	13 LEADS	650	760	1070
57 ~ 63Hz.			0.5	13 LEADS	650	760	930
55 ~ 65Hz.			1	13 LEADS	650	760	930
370 ~ 430Hz.			1	13 LEADS	685	795	965
47 ~ 53Hz.			0.2	21 LEADS	-	-	1455
45 ~ 55Hz.			0.5	21 LEADS	-	-	1455
58 ~ 62Hz.			0.2	21 LEADS	-	-	1455
55 ~ 65Hz.			0.5	21 LEADS	-	-	1455
380 ~ 420Hz.			1	21 LEADS	-	-	1480
RANGE	INPUT	ROW	RESOLUTION	MODEL	-	ELFD - 96	ELFD - 144
47 ~ 53Hz.	110V / 230V / 440V.	DOUBLE	0.5	13LEADS	-	1515	1935
45 ~ 55Hz.			1	13LEADS	-	1515	1935
57 ~ 63Hz.			0.5	13LEADS	-	1515	1935
55 ~ 65Hz.			0.5	13LEADS	-	1515	1935
370 ~ 430Hz.			1	13 LEADS	-	1540	1965
47 ~ 53Hz.			0.2	21 LEADS	-	-	2300
45 ~ 55Hz.			0.5	21 LEADS	-	-	2300
58 ~ 62Hz.			0.2	21 LEADS	-	-	2300
55 ~ 65Hz.			0.5	21 LEADS	-	-	2300
380 ~ 420Hz.			2	21 LEADS	-	-	2330

### FREQUENCY METERS [90°MOVING COIL BUILT IN TRANSDUCER TYPE.]

RANGE	INPUT	48 X48	72 x 72	96 x 96	144 x 144	PORATBLE
45 ~ 55Hz.	110V / 230V / 440V.		1150	1525	1685	2285
55 ~ 65Hz.			1150	1525	1685	2285
45 ~ 65Hz.			1150	1525	1685	2285
45 ~ 65Hz.	110 V/ 440 V		1150	1525	-	-

### FREQUENCY METERS [240°MOVING COIL BUILT IN TRANSDUCER TYPE.]

RANGE	INPUT	48 X48	72 x 72*	96 x 96	144 x 144	110 x 110
45 ~ 55Hz.	110V / 230V / 440V.		1765	1565	1730	1925
55 ~ 65Hz.	110V / 230V / 440V.		1765	1565	1730	1925
45 ~ 65Hz.	110V / 230V / 440V.		1765	1565	1730	1925
45 ~ 65Hz.	DUAL		-	-	-	-

\* With Ext. Transducer

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 POWER SYSTEM DIVISION : 96 / 98 AB LONAVLA INDUSTRIAL ESTATE, NANGARGAON, LONAVLA - 410 401. TEL. NO. : 91-2114/323665 FAX : 91-2114/273482  
 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

6. PORTABLE INSTRUMENTS					
A. MINIATURE MOVING COIL PORTABLE					
a) DC VOLTMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT SSSP-1	DC	MILIVOLT	ANY STANDARD SINGLE RANGE (0-50 TO 0-1000mV)	1.0	790
			ANY STANDARD DUAL RANGE (0-50/100 TO 0-500/1000mV)		890
			ANY STANDARD TRIPLE RANGE (0-50/100/200 TO 0-250/500/1000mV)		910
		VOLT	ANY STANDARD SINGLE RANGE (0-0.5 TO 0-1000V)	1.0	790
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-500/1000V) (1:2 Ratio)		890
			ANY STANDARD TRIPLE RANGE (0-1.5/3/7.5 TO 0-250/500/1000V) (1:2:4 Ratio)		910
b) DC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT SSSP-1	DC	MILIAMP	ANY STANDARD SINGLE RANGE (0-0.5 TO 0-1000mA)	1.0	790
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-500/1000mA) (1:2 Ratio)		850
		AMP	ANY STANDARD SINGLE RANGE (0-1 TO 0-30A)	1.0	790
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-15/30A) (1:2 Ratio)		850

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<b>B) MINIATURE MOVING IRON PORTABLE</b>					
<b>a) AC VOLTMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT SSSP-3	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-75 TO 0-600V)	1.5	670
			ANY STANDARD DUAL RANGE (0-75/150 TO 0-300/6000V)		850
			ANY STANDARD TRIPLE RANGE (0-75/150/300 TO 0-150/300/600V)		910
<b>b) AC AMMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT SSSP-3	1PH	AMP	ANY STANDARD SINGLE RANGE (0-0.5 TO 0-15A)	1.5	605
			ANY STANDARD DUAL RANGE (0-0.5 TO 0-15A)		730
<b>C) MOVING COIL PORTABLE</b>					
<b>a) DC VOLTMETER (Sensitivity 1000 ohms / V)</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-1	DC	MILIVOLT	ANY STANDARD SINGLE RANGE (0-20 TO 0-1000mV)	1.0	1875
			ANY STANDARD DUAL RANGE (0-25/50 TO 0-500/1000mV)		1940
			ANY STANDARD TRIPLE RANGE (0-25/50/100 TO 0-250/500/1000mV)		2000
			ANY STANDARD MULTI RANGE (0-25/50/100/200 TO 0-125/250/500/1000mV)		2060
PORT MSSB-1	DC	VOLT	ANY STANDARD SINGLE RANGE (0-0.5 TO 0-1000V)	1.0	1875
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-500/1000V)		1940
			ANY STANDARD TRIPLE RANGE (0-1.5/3/7.5 TO 0-250/500/1000V)		1995
			ANY STANDARD MULTI RANGE (0-1.5/3/7.5/15 TO 0-125/250/500/1000V)		2060

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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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<b>b) DC AMMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-1	DC	MICROAMP	ANY STANDARD SINGLE RANGE (0-100 TO 0-750 $\mu$ A)	1.0	2120
		MILIAMP	ANY STANDARD DUAL RANGE (0-1 TO 0-500mA))		2060
		AMPERE	ANY STANDARD SINGLE RANGE (0-1 TO 0-10A)		2120
			ANY STANDARD SINGLE RANGE (0-15 TO 0-50A)		2180
			ANY STANDARD SINGLE RANGE WITH EXT SHUNT OF 75mV (SHUNT PRICE EXTRA)		1870
		MILIAMP	ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-250/500mA)		2120
		AMPERE	ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-5/10A)		2180
			ANY STANDARD DUAL RANGE (0-10/20 TO 0-25/50A)		2240
<b>c) RECTIFIER TYPE AC VOLTMETER (Sensitivity 1000 ohms / V)</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-2	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-7.5 TO 0-1000V)	1.5	1940
			ANY STANDARD DUAL RANGE (0-7.5/15 TO 0-500/1000V)		2000
			ANY STANDARD TRIPLE RANGE (0-7.5/15/30 TO 0-250/500/1000V)		2060
			ANY STANDARD MULTI RANGE (0-7.5/15/30/60 TO 0-125/250/500/1000V)		2120

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<b>d) RECTIFIER TYPE AC AMMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-2	1PH	MILIAMP	ANY STANDARD SINGLE RANGE (0-10 TO 0-50mA)	1.5	1940
			ANY STANDARD SINGLE RANGE (0-75 TO 0-750mA)		2060
		AMPERE	ANY STANDARD SINGLE RANGE (0-1 TO 0-30A)		2120
<b>e) RECTIFIER TYPE AC FREQUENCY METER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-3	1PH	FREQUENCY	ANY STANDARD SINGLE RANGE (40-60 TO 360-440Hz) 110/220/440V	1.0	2515
<b>D) MOVING IRON PORTABLE</b>					
<b>a) AC VOLTMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-3	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-15 TO 0-1000V)	1.0	1625
			ANY STANDARD DUAL RANGE (0-15/30 TO 0-500/1000V)		1710
		AMPERE	ANY STANDARD TRIPLE RANGE (0-15/30/60 TO 0-250/500/1000V)		1845
<b>b) AC AMMETER</b>					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-3	1PH	AMPERE	ANY STANDARD SINGLE RANGE (0-0.2 TO 0-30A)	1.0	1515
			ANY STANDARD SINGLE RANGE (0-50 TO 0-100A)		1815
			ANY STANDARD DUAL RANGE (0-0.2/1 TO 0-15/30A)		1635
			ANY STANDARD DUAL RANGE (0-25/50 TO 0-50/100A)		1940
			ANY STANDARD TRIPLE RANGE (0-1/3/10 TO 0-3/10/30A)		2480
			ANY STANDARD MULTI RANGE (0-1/3/10/30 TO 0-5/10/25/50/100A)		2720

HT-CT/PT DIVISION : PLOT NO. B - 75, MIDC AREA, ADDITIONAL INDUSTRIAL AREA, ANAND NAGAR, AMBERNATH (E), DIST. THANE TEL. NO.: 0251-2621770/1  
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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

**BRANCHES AT :**

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

E) MOVING IRON TYPE-PRECISION GRADE INSTRUMENTS					
a) AC VOLTMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-2 / SIZE: 300x 196x133 mm	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-62.5V TO 0-1000V)	0.5	3630
			ANY STANDARD DUAL RANGE (0-62.5/125V TO 0-500/1000V)		3785
			ANY STANDARD DUAL RANGE (0-62.5/125/250V TO 0-250/500/1000V)		3920
b) AC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-2 / SIZE: 300x 196x133 mm	1PH	AMMETER	ANY STANDARD SINGLE RANGE (0-0.2A TO 0-30A)	0.5	3510
			ANY STANDARD DUAL RANGE (0-0.2/1A TO 0-15/30A)		3630
F) MOVING COIL TYPE-PRECISION GRADE INSTRUMENTS					
a) DC VOLTMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-1 / SIZE: 300x 196x133 mm	DC	MILIVOLT	ANY STANDARD SINGLE RANGE (0-50mV TO 0-1000mV)	0.5	3895
			ANY STANDARD DUAL RANGE (0-50/100mV TO 0-500/1000mV)		4015
			ANY STANDARD TRIPLE RANGE (0-50/100/200mV TO 0-250/500/1000mV)		4140
		VOLT	ANY STANDARD SINGLE RANGE (0-0.5V TO 0-1000V)		3900
			ANY STANDARD DUAL RANGE (0-0.5/1V TO 0-500/1000V)		4015
			ANY STANDARD TRIPLE RANGE (0-1.5/3/7.5V TO 0-250/500/1000V)		4140

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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

**BRANCHES AT :**

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b) DC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-1 / SIZE: 300x196x133 mm	DC	MILIVOLT	ANY STANDARD SINGLE RANGE (0-0.5mA TO 0-750mA)	0.5	4000
		AMMETER	ANY STANDARD SINGLE RANGE (0-1A TO 0-5A)		4115
			ANY STANDARD SINGLE RANGE (0-10A TO 0-50A)		4235
		MILIAMP	ANY STANDARD DUAL RANGE (0-0.5/1A TO 0-300/600mA)		4115
		AMPERE	ANY STANDARD DUAL RANGE (0-0.5/1A TO 0-5/10A)		4235
			ANY STANDARD DUAL RANGE (0-0.10/20A TO 0-25/50A)		4360
Note: Higher range with external shunts can be quoted on request					
c) AC/DC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-3	AC/DC	AMPERE	ANY STANDARD SINGLE RANGE (0-0.5A TO 0-10A)	0.5	4540
			ANY STANDARD DUAL RANGE (0-0.5/1A TO 0-5/10A)		4840
d) AC/DC VOLTMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-3	AC/DC	VOLT	ANY STANDARD SINGLE RANGE (0-75V TO 0-600V)	0.5	4600
			ANY STANDARD DUAL RANGE (0-75/150V TO 0-300/600V)		4720
			ANY STANDARD TRIPLE RANGE (0-75/150/300V TO 0-150/300/600V)		4840
e) POWER METERS WITH BUILT-IN TRANSDUCERS					
MODEL	PARAMETER	RANGE		ACC. CLASS	PRICE
		POTENTIAL	CURRENT		
PORT.SPW-UPF-R (ANALOGUE)	1PH WATT	ANY SINGLE VOLTAGE (0-15V TO 0-600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)	0.5	6175
		ANY DUAL VOLTAGE (0-15/30V TO 0-300/600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)		6295
PORT.SPW-LPF-R (ANALOGUE)	1PH WATT	ANY SINGLE VOLTAGE (0-15V TO 0-600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)		6175
		ANY DUAL VOLTAGE (0-15/30V TO 0-300/600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)		6295

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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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<b>G) DYNAMOMETRIC PORTABLE INSTRUMENTS</b>					
<b>a) WATT UPF SINGLE PHASE</b>					
MODEL	PARAMETR	RANGE		ACC. CLASS	PRICE
		CURRENT	VOLTAGE		
PORT MSMB-4	1PH WATT	ANY STANDARD SINGLE SINGLE CURRENT (0-0.5A TO 0-15A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)	1.0	2790
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		2900
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		3010
PORT MSMB-4	1PH WATT	ANY STANDARD DUAL CURRENT (0-0.5/1A TO 0-15/30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)	1.0	3010
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		3115
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		3220
<b>b) WATT INSTRUMENTS LPF</b>					
MODEL	PARAMETR	RANGE		ACC. CLASS	PRICE
		CURRENT	VOLTAGE		
PORT LSDW-1 PF 0.2	1PH WATT	ANY STANDARD SINGLE SINGLE CURRENT (0-0.5A TO 0-30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)	1.5	5330
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		5435
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		5545
		ANY STANDARD DUAL CURRENT (0-0.5/1A TO 0-15/30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)		5545
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		5650
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		5760

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(CIN U99999MH1960PLC011780)

c) WATT INSTRUMENTS UPF (PRECISION GRADE)					
MODEL	PARAMETR	RANGE		ACC. CLASS	PRICE
		CURRENT	VOLTAGE		
PORT LSDW-2	1PH WATT	ANY STANDARD SINGLE SINGLE CURRENT (0-0.5A TO 0-30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)	0.5	5115
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		5220
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		5330
		ANY STANDARD DUAL CURRENT (0-0.5/1A TO 0-15/30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)		5330
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		5435
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		5545
d) WATT INSTRUMENTS UPF					
MODEL	PHASE	RANGE		ACC. CLASS	PRICE
		CURRENT	VOLTAGE		
PORT LSDW-3 (WATT)	3PH-1EL	1, 2.5, 5, 10A	110, 150, 300, 440, 600 V	1.5	4685
PORT LSDW-4 (WATT)	3PH-2EL	0 - 0.5, 1, 2.5, 5, 10, 1/2, 2.5/5, 5/10, 10/20A	110, 150, 300, 440, 600, 150/300, 110/400, 300/600 V		6620
PORT LSDW-5 (WATT)	3PH-3EL	0 - 0.5, 1, 2.5, 5, 1/2, 2.5/5, 5/10, 10/20A	110, 150, 300, 440, 600 V		7970
PORT LSDW-6 (VAR)	3PH-2EL	0 - 0.5, 1, 2.5, 5, 10A	110, 150, 300, 440, 600, 150/300, 110/440, 300/600 V		7410
PORT LSDW-7 (VAR)	3PH-3EL	0 - 0.5, 1, 2.5, 5, 10, 1/2, 2.5/5, 5/10, 10/20A	110, 150, 300, 440, 600		8020
e) POWER FACTOR METERS					
MODEL	PHASE	RANGE		ACC. CLASS	PRICE
		CURRENT	VOLTAGE		
PORT LSDW-8	1PH	SINGLE CURRENT (0.5, 1, 2.5, 5, 10A)	110/250/500V 125/250V 250/500V 62.5/125/250V 125/250/500V 150/300/600V	± 2°	4945
PORT LSDW-8/31	3PH-2EL	1 OR 5 A	110 OR 440 V	± 2°	4945
PORT LSDW-8/32	3PH-2EL	0-0.5, 1, 2.5, 5, 10 A	125/250 V	± 2°	6240
		2.5/5M 5/10, 10/20 A	250/500 V	± 2°	6530
PORT LSDW-9	3PH-3EL	0 - 0.5, 1, 2.5, 5, 10 A	110, 250/500 V	± 2°	7410

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## 7. OTHER METER

### A. SYNCHROSCOPE (MECHANICAL & LED TYPE)

MODEL	TYPE	OPERATING VOLTAGE	ACCU.	PRICE
SYN-96M	MOVING VANE TYPE	110 VOLTS	± 2°	1740
SYN-96M	MOVING VANE TYPE	63.5/230/440V (WITH EXT. POTENTIAL TRANSFORMER)		2400
SYN-96E	ROTATING LIGHT TYPE	110 VOLTS		2310
SYN-96E	ROTATING LIGHT TYPE	63.5/230/440V (WITH EXT. POTENTIAL TRANSFORMER)		2970
SYN-144M	MOVING VANE TYPE	110 VOLTS		1770
SYN-144M	MOVING VANE TYPE	63.5/230/440V (WITH EXT. POTENTIAL TRANSFORMER)		2430
SYN-144E	ROTATING LIGHT TYPE	110V		2480
SYN-144E	ROTATING LIGHT TYPE	110V (WITH EXT. POTENTIAL TRANSFORMER)		3140

EXTERNAL PT ALSO AVAILABLE AT RS. 900 EXTRA

### B . PHASE SEQUENCE INDICATOR

MODEL	TYPE	OPERATING VOLTAGE	PRICE
PSI 96-M	96X96mm ELECTRO MECHANICAL	50V TO 500V AC FOR 25 TO 60 Hz	1095

### C. DIFFERENTIAL VOLTMETER (MOVING COIL TYPE)

MODEL	TYPE	OPERATING VOLTAGE	PRICE
SM-96	MOVING COIL(FSD 90DEG.)	63.5V TO 600V (SINGLE RANGE)	970
SQ-96	MOVING COIL(FSD 240DEG.)	63.5V TO 600V (SINGLE RANGE)	1330

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#### BRANCHES AT :

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

8. SHUNT				
A. STANDARD SHUNT (as per IS 1248 / DIN 43703 / DIN 43780)				
TYPE	CURRENT RATINGS	mV DROPS	ACCU. CLASS	PRICE (Rs.)
Insulated Mounting	1, 1.5, 2, 2.5, 3, 4, 5, 6, 10, 15, 20, 25A	50, 60, 75	1	360
	I Section	30, 40, 50A, 60A, 75A	1	360
	80, 100A	485		
	120, 150A	640		
L Section	200A	50, 60, 75	1	1010
	250A			1125
	400A			1635
	600A			1885
	750A			2110
	800, 850, 900A			3030
	1000, 1200A			4712
	1250, 1500A			6090
	1600A			7080
	2000A			7475
T Section	2500A	50, 60, 75	1	8125
	3000A			8940
	4000A			12575
	5000A			20475
	6000A			33400
	7500A			40625
	8000A			57980
	10000A			89200
	12000A			142187
	15000A			162500

NOTE : 1) Prices for other mV drops on request.

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## 9. DIGITAL METER

### A. DIGITAL AC METERS

#### a) AC VOLTMETER (4 Digits Programmable) : Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 62131	1 PH	Volt	30 V to 600V Direct	48 x 96	0.5	1685
AE 62132				96 x 96		1290
AE 62133				72 x 72*		1685
AE 62134				72 x 144		3335
AE 62135				144 x 144*		2255
AE 62141	1 PH	Volt	30 V to 600V Direct	48 x 96	1	970
AE 62142				96 x 96		950
AE 62143				72 x 72*		970
AE 62144				72 x 144		2620
AE 62145				144 x 144*		1940

#### b) AC AMMETER (4 Digits, Programmable) Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 60131	1 PH	Amp	5A Direct	48 x 96	0.5	1685
AE 60132			Above 5A	96 x 96		1290
AE 60133			- use CT 1A OR 5A sec.	72 x 72*		1685
AE 60134				72 x 144		3335
AE 60135				144 x 144*		2365
AE 60141	1 PH	Amp	5A Direct	48 x 96	1	970
AE 60142			Above 5A	96 x 96		950
AE 60143			- use CT 1A OR 5A sec.	72 x 72*		970
AE 60144				72 x 144		2645
AE 60145				144 x 144*		2045

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### c) AC VOLTMETER (4 Digits, Programmable with Built in Selector Switch)Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 62332	3 PH	Volt	30 V to 600V Direct	96 x 96	0.5	1430
AE 62342				96 x 96	1	1210
AE 62331	3 PH	Amp	30 V to 600V Direct	48 x 96	0.5	1480
AE 62341				48 x 96	1	1350
AE 62334	3 PH	Amp	30 V to 600V Direct	72 x 144	0.5	3715
AE 62344				72 x 144	1	3000
AE 62335	3 PH	Amp	30 V to 600V Direct	144 x 144	0.5	2745
AE 62345				144 x 144	1	2320

### c) AC AMMETER (4 Digits, Programmable with Built in Selector Switch)Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 60331	3 PH	Amp	5A Direct Above 5A	96 x 96	0.5	1540
AE 60341			- use CT 1A or 5A sec.			
AE 60331	3 PH	Amp	5A Direct Above 5A	48 x 96	0.5	1590
AE 60341			- use CT 1A or 5A sec.			
AE 60334	3 PH	Amp	5A Direct Above 5A	72 x 144	0.5	3715
AE 60344			- use CT 1A or 5A sec.			
AE 60335	3 PH	Amp	5A Direct Above 5A	144 x 144	0.5	2635
AE 60345			- use CT 1A or 5A sec.			

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## B. DIGITAL DC METERS

### a) DC VOLT METER (4 Digits, Range Programmable) Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 82131	1 PH	Volt	200mV to 600V	48 x 96	0.5	1540
AE 82132			With Built in Resistance	96 x 96		1540
AE 82133			72 x 72*	1540		
AE 82134			72 x 144	3135		
AE 82135			144 x 144*	2310		
AE 82141	1 PH	Volt	200mV to 600V	48 x 96	1	1200
AE 82142			With Built in Resistance	96 x 96		1200
AE 82143			72 x 72*	1430		
AE 82144			72 x 144	2945		
AE 82145			144 X 144*	2035		

### b) DC AMMETER (4 Digits, Range Programmable) Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 80131	1 PH	Amp	20mA to 5A Direct	48 x 96	0.5	1540
AE 80132			Beyond 5A	96 x 96		1540
AE 80133			- used External Shunt of	72 x 72*		1385
AE 80134			50 / 60 / 75mV drop	72 x 144		3035
AE 80135			144 x 144*	2420		
AE 80141	1 PH	Amp	20mA to 5A Direct	48 x 96	1	1200
AE 80142			Beyond 5A	96 x 96		1200
AE 80143			- used External Shunt of	72 x 72*		1320
AE 80144			50 / 60 / 75mV drop	72 x 144		2760
AE 80145			144 x 144*	2145		

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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

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# PRICE LIST

(CIN U99999MH1960PLC011780)

## C. FREQUENCY METER ( 4 DIGIT) Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE	
AE 64111	1 PH	Frequency	30 to 99.99 Hz	48 x 96	0.1	1685	
AE 64112			with Built – in Transducer	96 x 96		1685	
AE 64114				72x 144 *		3335	
AE 64115					144 x 144*	2200	
AE 64121					48 x 96	0.2	1130
AE 64122					96 x 96		1130
AE 64124					72 x 144*		2855
AE 64125					144 x 144*		1925

Note :

1) Frequency Meters are with 4 Digit Display.

2) No Auxiliary supply is required for Frequency Meter between Range 45 – 55Hz and Input supply 110V/240V 50Hz.

For any other Frequency range or Input supply, Auxiliary supply of 110V/240V, 1-Phase, 50 Hz AC is required.

## D) POWER FACTOR METER (4 DIGIT) Series $\mu$ M

MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE	
AE 65101	1 PH	Power Factor	1A / 5A and 110V / 230V	48 x 96	$\pm 2^\circ$	3145	
AE 65102			with Built-in Transducer	96 x 96		3410	
AE 66301	3 PH 1EL		1A / 5A and	48 x 96	$\pm 2^\circ$	3145	
AE 66302			110V / 230V / 440V	96 x 96		3410	
AE 66303				72 x 144*		3850	
AE 67302	3PH 2EL 3W			1A / 5A and	96 x 96	$\pm 2^\circ$	3730
AE 68302	3PH 3EL 4W			110V / 230V / 440V	144 x 144		4205
AE 69304	3PH 3EL 4W						5500

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## E. DIGITAL POWER METERS WITH IN BUILT TRANSDUCER (Series $\mu$ M)

Watt/VAR/VA Meter						
MODEL	TYPE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
AE 70131	1 PH	Watt / VAR / VA	110V or 230V	48 x 96 #	0.5	2750
AE 70132			or 440V	96 x 96	0.5	2750
AE 70134			&	72 x 144* #	0.5	5390
AE 70135				144 x 144	0.5	5700
AE 70151			1A or 5A	48 x 96 #	1	2475
AE 70152				96 x 96	1	2475
AE 70154			Note : Please specify	72 x 144* #	1	5225
AE 70155				144 x 144	1	5500
AE 73332			3PH 2EL 3W	Watt / VAR / VA	exact parameter while ordering.	96 x 96
AE 73334	Balanced & Unbalanced Load	72 X 144	0.5			5555
AE 73342	3PH 2EL 3W	Watt / VAR / VA		96 x 96	1	3080
AE 73344	Balanced & Unbalanced Load			72 X 144	1	5335
AE 74332	3PH 3EL 4W	Watt / VAR / VA		96 x 96	0.5	3630
AE 74334	Balanced & Unbalanced Load			72 X 144	0.5	5885
AE 74342	3PH 3EL 4W	Watt / VAR / VA		96 x 96	1	3300
AE 74344	Balanced & Unbalanced Load			72 X 144	1	5610

**Note:**

While Ordering the "Power Meters", please add below mentioned alphabet given in

to the m "A" : W , "B" : kW "C" : MW "D" : VAR "E" : kVAR

"F" : MVAR "G" : VA "H" : kVA "I" : MVA

# Meters are available with External Transducer.

## F. OPTIONAL FEATURES

1.	48 x 96, 96 x 96 and 72 x 144mm Meters can also be supplied with 4½ Digit display (Indication upto 1 9 9 9 9) at extra cost per meter.	700
2.	Non-standard unit calibration such as %, RPM, kg/cm can be provided (subject to technical feasibility).	100
3.	Frequency Meter suitable for higher frequency (100 to 1000Hz) can be supplied.	100
4.	DC Ammeters beyond 5A to be used with DC External Shunt of 50/60/75mV drop.	Shunt price extra.
5.	Digital Panel Meters are normally supplied with RED LED display. However, these can also be supplied with GREEN LED display depending upon availability.	Nil
6.	For DC Auxiliary Supply 48 V / 110 / 230V DC	500
7.	For DC Auxiliary Supply 24VDC	750

**NOTES :**

1) Above Digital Meters, except Frequency and Power Factor Meters, are with 3½ Digit display, i.e. indication upto 1 9 9 9.

2) 72 x 144mm and 144 x 144mm Meters are with 25mm (1") Display height, whereas all other sizes are with 12.5mm (½ ") Display height.

3) Auxiliary Supply of 110V/240V 50Hz is required for all types of Digital Panel Meters except Frequency Meter.

4) Auxiliary supply of 24V DC, 48V / 110V / 220V DC can be supplied against specific enquiry

5) '\*' Indicates subject to availability minimum 10 no's meters in a single order.

6) 4½ Digit Meter not available in 72 x 72 mm size.

7) Ammeter with selector switch and Voltmeter with selector switch also available with 0.8 inch display at extra price Rs. 250 each

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## 10. ENERGY METER (kWh)

### a) ENERGY METER (WITH 6 DIGIT IMPULSE COUNTER)

MODEL	PHASE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
KWHM 30132	1 PHASE	KWH	63.5V / 110V / 240V / 440V & 1A / 5A	96 X 96	0.5	2475
KWHM 30142	1 PHASE	KWH			1	2090
KWHM 31332	3PH - 2EL - 3W	KWH			0.5	3080
KWHM 31342	3PH - 2EL - 3W	KWH			1	2450
KWHM 32332	3PH - 3EL - 4W	KWH			0.5	3465
KWHM 32342	3PH - 3EL - 4W	KWH			1	2750

### b) ENERGY METER (WITH 6 DIGIT LED DISPLAY)

MODEL	PHASE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
KWHD 33132	1 PHASE	KWH	63.5V / 110V / 240V / 440V & 1A / 5A	96 X 96	0.5	2200
KWHD 33142	1 PHASE	KWH			1	1925
KWHD 34332	3PH - 2EL - 3W	KWH			0.5	3575
KWHD 34342	3PH - 2EL - 3W	KWH			1	2750
KWHD 35332	3PH - 3EL - 4W	KWH			0.5	3630
KWHD 35342	3PH - 3EL - 4W	KWH			1	3300

### c) DUAL kWh

MODEL	PHASE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
2KWD	3P-3E-4W	KWH	63.5V / 110V / 240V / 440V & 1A / 5A	96 X 96	1	5500

### d) DC kWh

MODEL	PHASE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
DC KWH	1 PHASE	KWH	48V/110V/220VDC	96 X 96	1	5500

### NOTES :

- RS 485 Communication Port can be provided on the Static Energy Meters at the following EXTRA CHARGES per Meter.
  - Static Energy Meter with Accuracy Class 1.0 : @ Rs. 700.00
  - Static Energy Meter with Accuracy Class 0.5 : @ Rs. 750.00

However, a MSC485-232 Module is required to be connected to RS-485 Port for communication, with PC (for Static Energy Meter). This "MSC485-232 Converter Module" can be provided at an extra cost of Rs. 3,500.00 and one such Module can drive 255 KWH Units upto a distance of 1000 meters.
- Static Energy Meters with Impulse Counter / LED Display are "self-powered". However, meters with RS485 port required Auxiliary Supply. KWH Meter with LED display has height of 8mm. All LED displays are Red LEDs.
- MS-Windows compatible 'Energy Monitoring Software' - "KWH SOFTCOM" is available at extra cost.
- While ordering these Meters, please state the Model Nos. mentioned in the Price List.

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# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## 11. DIGITAL VIF METER

### A) DIGITAL COMBIMETER (VIF) WITH THREE WINDOW LED DISPLAY

MODEL	PHASE	PARAMETER	RANGE	SIZE (mm)	ACCU. CLASS	PRICE
VIF 16142	1 PHASE (3 digit)	VIF	0-300 / 0-600V AC 1A / 5A 45-55Hz.	96 X 96	1	1485
VIF 17142	3 PHASE (3 or 4 digit)	VIF	Field settable CTR/PTR,440/110 V AC 1A / 5A	96 X 96	1	2200

### Multifunction Meter BM Series (Economy) (With THD % Measurement) with accuracy class 1.0/0.5 and aux supply : 85-285 AC/DC

Size: 96 X 96 mm		Size: 144 X 144mm	
AE MODEL NO.	List price	AE MODEL NO.	List price
AE 9000-BM	6380	AE 1440-BM	6930

#### Special Class Multifunction Meters :-

Model	Accuracy Class	Size	List Price
AE9000S	0.2	96 x 96mm	15800
AE1440S	0.2	144 x 144mm	16800
AE1440BMS	0.2	96 x 96mm	14800

#### Tap Position Indicator with 4-20mA Output :-

Model	No of Tap	Accuracy	List Price
TPI-17	17 Taps	0.5	8100
TPI-35	35 Taps	0.5	8100
TPI-99	99 Taps	0.5	8500

Product	List Price
Temperature Controller with 2 channel output	2150
Temperature Scanner	1950
Energy Audit Kit	125000

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## 12. Multifunction Meter AE 9000 (With THD % Measurement)

Size: 96 X 96mm		Size: 144 X 144mm				
AE MODEL NO.	List price	AE MODEL NO.	List price			
AE 9000	10450	AE 1440	11000			
AE 9001	8800	AE 1441	9350			
AE 9002	9350	AE 1442	9900			
AE 9003	7700	AE 1443	8250			
<b>SPECIFICATIONS:</b>						
Sr.No.	Basic Specification	AE 9000	AE 9001	AE 9002	AE 9003	
		AE 1440	AE 1441 Energy Class - LED Display	AE 1442 Power Class - LED Display	AE 1443 LED Display Economy	
1	Volts (R-N, Y-N, B-N)	✓	✓	✓	✓	
2	Volts (RY, YB, BR)	✓	✓	✓	✓	
3	Avg. Voltage	✓	✓	✓	✓	
4	Current (R, Y, B)	✓	✓	✓	✓	
5	Avg. Current	✓	✓	✓	✓	
6	IN	✓				
7	Frequency	✓	✓	✓	✓	
8	pf (R, Y, B)	✓		✓		
9	System PF	✓	✓	✓	✓	
10	Phase Angle (R, Y, B)	✓				
11	Phasor Angle (R-Y, Y-B, B-R)	✓				
12	kWh Total	✓	✓			✓
13	kWh (Import / Export)	✓	**			
14	kVArh Total	✓	✓			
15	kVArh (Import / Export)	✓	**			
16	kVAh Total	✓	✓			
17	kVAh (Import / Export)	✓	**			
18	Prev. Energy total (KWh, KVRRh, KVARn)	✓				
19	Prev. Energy Import (KWh, KVRRh, KVARn)	✓				
20	Prev. Energy Export (KWh, KVRRh, KVARn)	✓				
21	kW (R, Y, B)	✓		✓		
22	System kW	✓		✓		✓
23	kVA (R, Y, B)	✓		✓		✓
24	System kVA	✓		✓		✓
25	kVAr (R, Y, B)	✓				
26	System kVAr	✓				
27	MD KW	✓	*	*		✓
28	MD KVA	✓	*	*		
29	Run Hrs. Total	✓	✓			✓
30	Run Hrs. (Import, Export)	✓				
31	Prev. Run Hrs Total	✓				
32	Prev. Run Hrs (Import, Export)	✓				
33	Total On Hrs.	✓	✓			✓
34	RTC - Date & Time	✓	*			
35	3P 3E 4W	✓	✓	✓		✓
36	3P 3E 4W	✓	✓	✓		✓
37	3P 2E 4W	✓				✓
38	1P 1E	✓				
39	CTR / PTR Programming (Primary / Sec.)	✓	✓	✓		✓
40	DISPLAY	LED	LED	LED		LED
41	RS 485 Current	✓	*	✓		
42	THD % of Voltage Current signal	✓				
	LED Test	✓				✓
	Memory Test	✓				
43	EMS/ BMS Software comply	✓	*	*		
44	Accuracy class	1 (0.5 *)	1 (0.5 *)	1 (0.5 *)		1

Note: Parameter marked by \* will be optional  
# Accuracy class is not same for all measured parameters

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(CIN U99999MH1960PLC011780)

## 14. POWER LINE TRANSDUCER

### A. VOLTAGE TRANSDUCER

#### a) VOLTAGE TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
50135	PD1	DC	VOLTAGE	0-500V	Refer Table 4 F	130X70X108	0.5	3465
51135	PD1	AC	VOLTAGE	0-500V		130X70X108	0.5	3465

### B. CURRENT TRANSDUCER

#### a) CURRENT TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
52135	PD1	DC	CURRENT	0-5A Above 5 A Use External Shunt	Refer Table 4 F	130X70X108	0.5	3465
53135	PD1	AC	CURRENT	0-5A Above 5 A		130X70X108	0.5	3465

### C. FREQUENCY power factor TRANSDUCER

#### a) FREQUENCY & power factor TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
54135	PD1	AC	FREQUENCY	50/60 Hz, 400(± 20) Hz	Refer Table 4 F	130X70X108	0.2% OF C.F.	3465
55135	PD1	AC	PF	1PH or 3PH-1EL, Balanced Load		130X70X108	0.5	6930
55136	PD3	AC	PF	3PH-3EL-4W		175X75X110	0.5	6930

### D. POWER TRANSDUCER

#### a) WATT TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
56135 *	PD3	1PH	WATT	Voltage : 500V AC	Refer Table 4 F	175X75X110	0.5	6930
56336 *	PD3	3PH-2EL-3W	WATT	Current : 1A OR 5A		175X75X110	0.5	6930
56337 *	PD3	3PH-3EL-4W	WATT	CT secondary		175X75X110	0.5	6930

#### b) VAR TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
57136 *	PD3	1PH	VAR	Voltage : 500V AC	Refer Table 4 F	175X75X110	0.5	6930
57336 *	PD3	3PH-2EL-3W	VAR	CT secondary		175X75X110	0.5	6930
57337 *	PD3	3PH-3EL-4W	VAR			175X75X110	0.5	6930

#### c) VA TRANSDUCER WITH AC AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
58135 *	PD3	1PH	VA	Voltage : 500V AC	Refer Table 4 F	175X75X110	0.5	6930
58336 *	PD3	3PH-2EL-3W	VA	CT secondary		175X75X110	0.5	6930
58337 *	PD3	3PH-3EL-4W	VA			175X75X110	0.5	6930

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 POWER SYSTEM DIVISION : 96 / 98 AB LONAVLA INDUSTRIAL ESTATE, NANGARGAON, LONAVLA - 410 401. TEL. NO. : 91-2114/323665 FAX : 91-2114/273482  
 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

#### BRANCHES AT :

<b>DELHI</b>	<b>BANGALORE</b>	<b>CHENNAI</b>	<b>KOLKATA</b>	<b>SECUNDERABAD</b>	<b>PUNE</b>
Tel. : 011-23217142	080-22242095	044-25383939	033-22369735 / 9627	040-27538982	9520-24336372
Fax : 011-23215913	080-22220136	044-25383979	033-22369145	040-27538982	9520-24320908
E-MAIL : sood@nde.vsnl.net.in	aelbang@blr.vsnl.net.in	ael@md4.vsnl.net.in	ael@cal.vsnl.net.in	baburao168@yahoo.co.in	shreebal@vsnl.net



# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## E. MULTIFUNCTION TRANSDUCER

<b>MODEL : PMT-9</b> with 4 analogue & 2 Digital Outputs (With RS-485 Port)	<b>17050</b>
<b>MODEL : PMT-9</b> with 2 Output	<b>14200</b>
<b>MODEL : PMT-9</b> with 4 Output with accuracy 0.2%	<b>17050</b>
<b>MODEL : PMT-R</b>	<b>5700</b>

## F. OUTPUT RANGE TABLE (ANY ONE)

CURRENT	0-1mA	0-5mA	0-10mA	0-20mA	4-20mA	10-0-10mA
MAX. LOAD	10 k OHMS	2 k OHMS	1 k OHMS	500 OHMS	500 OHMS	1 k OHMS
VOLTAGE	0-1 V	0-5 V	0-10 V	1-5 V	2-10 V	10-0-10 V
MAX. LOAD	500 OHMS	2.5 k OHMS	5 k OHMS	2.5 k OHMS	5 k OHMS	5 k OHMS

## G. AUXILIARY SUPPLY (ANY ONE)

AC V	63.5 V, 110V, 220 V, 230 V, 240 V, 380 V, 415 V, 440 V $\pm$ 10% AT 50 / 60 Hz
DC V	24 V, 48 V, 110 V, 220 V $\pm$ 10% (at extra cost)

## H. OPTIONAL FEATURES

a) Dual Output	350
b) Isolation between both outputs	500
c) Better accuracy class of $\pm 0.2\%$ for I, V & Power Transducer	500
* DC Auxiliary Supply	
a) 24V DC	550
b) 48V to 220V DC	800
c) Universal (80V to 250V AC/DC)	800
4kV High Voltage withstand test level for 1 minute (Standard is 2kV RMS for 1 Minute)	300
O/P 4 to 20 mA at 750 ohm load resistance	800
Bipolar (kW / kVAR) Transducers with Auxiliary Supply -	
a) 240V / 110V AC	550
b) 24V DC	1050
c) 48V to 220V DC	1350

### Notes :

1) While Ordering the "Transducer", please add below mentioned alphabet given in \* to the model:-

"A"	:	W	"B"	:	kW	"C"	:	MW
"D"	:	VAR	"E"	:	kVAR	"F"	:	MVAR
"G"	:	VA	"H"	:	kVA	"I"	:	MVA

2) Din Rail Mounting on request without extra cost.

\*Better accuracy 0.2% for current, voltage, PF and Power Transducer Rs.500

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### BRANCHES AT :

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Fax	: 011-23215913	080-22220136	044-25383979	033-22369145	040-27538982	9520-24320908
E-MAIL	: sood@nde.vsnl.net.in	aelbang@blr.vsnl.net.in	ael@md4.vsnl.net.in	ael@cal.vsnl.net.in	baburao168@yahoo.co.in	shreebal@vsnl.net



# Automatic Electric Ltd.

# PRICE LIST

(CIN U99999MH1960PLC011780)

## 15. NEW SERIES TRANSDUCER

### A. PROGRAMMABLE TRANSDUCER ( Voltage / Current / Power)

#### a) TRANSDUCER WITH UNIVERSAL AUXILIARY SUPPLY (SINGLE OUTPUT)

MODEL	TYPE	PHASE	PARAMETER	INPUT RANGE	OUTPUT RANGE	SIZE (mm)	ACCU. CLASS	PRICE
Utr-3	Utr-3	AC 3 PH- 2E/3E - 3W/4W	KW/KVA/KVA /PF	Non-Programmable	4-20 mAmp @500 OHM	130X78X101	1	Existing PD3
PTr-V	PD1	AC	VOLTAGE	0-500V	4-20 mAmp @500 OHM	130X70X108	1	5200
PTr - I	PD1	AC	CURRENT	0-7999 A	4-20 mAmp @500 OHM	130X70X108	1	5200
PTr-P	Utr-3	AC 3 PH- 3E - 3W/4W	KW/KVA/KVA <sub>r</sub>	PROGRAMMABLE	4-20 mAmp @500 OHM	130X78X101	1	8400
Tr-3V	PD3	AC 3 PH	CURRENT	0-7999 A	4-20 mAmp @500 OHM	175X85X110	1	6930
Tr-3A	PD3	AC 3 PH	VOLTAGE	0-500V	4-20 mAmp @500 OHM	175X85X110	1	6930

#### SPECIAL NOTE:

**AUXILIARY SUPPLY** : - Universal : 85 – 285 V AC/DC (Standard)

For Three Phase Current & Voltage Transducers, there were three separate output shall be available (Phase wise separate 4- 20 mADC output).

### B. OPTIONAL FEATURES

	PRICE
a) Dual Output ( 4- 20 mAmp @ 500 Ohm Load)	350
b) Isolation betw een both outputs	500
c) Better accuracy class of $\pm 0.5\%$ of Range for V/ I /Power Transducer	400
d) 3kV High Voltage withstand test level Between I/P & O/P for 1 minute (Standard is 2k V RMS for 1 Minute)	300

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