



**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 :

	DELHI	BANGALORE	CHENNAI	KOLKATA	SECUNDERABAD	PUNE
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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PRICE LIST

(CIN U99999MH1960PLC011780)

1. VOLTMETERS AND AMMETERS 90°

SHAPE	SQUARE FLUSH				ROUND FLUSH		ROUND	
							PROJECTING	PEDESTAL
BEZEL	48 x48	72 x 72	96 x96	144 x 144	83 DIA	135 DIA		113 DIA
PANEL CUT.	45X45 ^{+0.6}	68X68 ^{+0.7}	92X92 ^{+0.8}	138X138 ⁺¹	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	4DPM	
0 - 10mV.	0 - 40mV.	--	690/-	735/-	1280/-	675/-	975/-	--
0 - 50mV.	0 - 30V.	1045/-	690/-	810/-	1280/-	675/-	975/-	--
0 - 40V.	0 - 300V.	1045/-	795/-	860/-	1305/-	700/-	990/-	--
0 - 400V.	0 - 600V.	1155/-**	860/-	920/-	1375/-	860/-	1045/-	--
0 - 750V.	0 - 1000V.	1740/-**	11290/-*	11360/-*	11805/-	--	--	--

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	4DFM	--
0 - 250mA.	0 - 400mA.	--	810/-	860/-	1375/-	860/-	1050/-	--
0 - 500mA.	0 - 800mA.	1045	810/-	860/-	1375/-	750/-	1050/-	--
0 - 1mA.	0 - 8A.	1045/-	690/-	735/-	1170/-	690/-	975/-	--
0 - 10A.#	0 - 30A. .#	1045/-	690/-	735/-	1170/-	690/-	975/-	--
0 - 40A. .# .#	0 - 12kA. .# .#	1010/-	690/-	735/-	1170/-	690/-	975/-	--

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

ACC. CL.			2.5	1.5	--	1.5	1.5	1.5
RANGE	RANGE	MODEL						
MIN.	MAX.		SMR - 96	SMR - 144	2DFRM	4DFRM	4DPRM	--
0 - 6V.	0 - 30V.		1360/-	1655/-	--	1575/-	1545/-	--
0 - 40V.	0 - 300V.		1455/-	1925/-	--	1665/-	1630/-	--
0 - 400V.	0 - 600V.		1455/-	1925/-	--	1665/-	1630/-	--
0 - 750V.	0 - 1000V.		1885/-	2375/-	--	--	--	--

D) AC. AMMETERS. [MOVING COIL - RECTIFIER TYPE.]

ACC. CL.		--	2.5	1.5	--	1.5	1.5	1.5
RANGE	RANGE	MODEL						
MIN.	MAX.		SMR - 96	SMR - 144		4DFRM	4DPRM	--
0 - 10mA.	0 - 50mA.		1165/-	1650/-		1290/-	1360/-	--
0 - 75mA.	0 - 750mA.		1365/-	1850/-		1565/-	1545/-	--
0-1A	0-8A		1440/-	2035/-		1665/-	1630/-	--
0 - 10A.	0 - 30A.		1440/-	2035/-		1665/-	1630/-	--

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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	4DFI	4DPI	PU4
0 - 15 V.	0 - 120V.	-	440/-	505/-	713/-	425/-	505/-	505/-	600/-
0 - 150V.	0 - 300V.	820/-	440/-	505/-	713/-	425/-	505/-	505/-	600/-
0 - 400V.	0 - 600V.	-	440/-	590/-	790/-	440/-	520/-	520/-	600/-
0 - 750V.	0 - 1000V.	-	910/-*	910/-*	1190/-*	--	--	--	--

*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	4DFI	4DPI	PU4
0 - 500mA.	0 - 8A.	825/-	410/-	455/-	650/-	363/-	535/-	535/-	583/-
0 - 10A.	0 - 30A.	825/-	410/-	455/-	650/-	363/-	535/-	580/-	583/-
0 - 40A.	0 - 100A.	--	510/-	540/-	760/-	440/-	580/-	580/-	680/-
0 - 120A.	0 - 200A.	--	--	640/-	885/-	--	680/-	680/-	770/-

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,		1000/-	1180/-	0 - 120V.	0 - 400V.	1340/-	1760/-	
0 - 500V.	L1 - N, L2 - N, L3 - N.		1000/-	1180/-	0 - 500V.	0 - 600V.	1385/-	1810/0	

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	1460/-	MDID-72A
	20%					
	0%	15 MIN				
	20%					

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(CIN U99999MH1960PLC011780)

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

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PRICE LIST

(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 ^{+0.6}	68X68 ^{+0.7}	92X92 ^{+0.8}	138X138 ⁺¹	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%

D.C. VOLTMETER [MOVING COIL]

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/-*

D.C. AMMETER [MOVING COIL]

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/-

A.C. VOLTMETER [RECTIFIER TYPE]

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	
OPTIONAL FEATURES FOR MOVING COIL 240 □ INSTRUMENTS	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/-
			D 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/-
	DIAL		INITIAL SUPPRESSION EXCEPT 48 X 48	100/-
			END SUPPRESSED 6 TIMES (FOR AC) AND END SUPPRESSED 2TIMES (FOR DC)	50/-
	RANGE		SPARE DIAL FOR 72 X 72 , 96 X 96 BASE COLOUR - BLACK	50/-
	TERMINAL		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/-
	RUBBER GASKET		ADDITIONAL FOR 72 X 72,96 X 96,144 X 144 . VOLTMETER	150/-
			SHROUD	10/-
		REAR CAP	10/-	
CLAMPS		THIN RUBBER GASKET FOR SQ. INST.	20/-	
		THICK RUBBER GASKET ROUND FLUSH INST.	20/-	
		THICK RUBBER GASKET+M.S CLAMPS 72X72,96X96,144X144	75/-	
PROTECTION		MOSAIC GRID MOUNTING FOR SQUARE INST.	50/-	
		IP 54	75/-	

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(CIN U99999MH1960PLC011780)

3. POWER METER

BAZEL	PANEL CUT				ACCURACY CLASS.				SCALE LENGTH			
96 X 96	92 X 92 ^{+0.8}				1.5 % WATT, VAR. VA. & 2° for POWER FACTOR.				80 mm approx.			
144 X 144	138 X 138 ^{+1.0}				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 440 V	1 A. / 5 A.	2690/-	3840/-	4680/-		4200/-	5090/-	
S 144	110 V 440 V		3120/-	4330/-	5245/-		4625/-	5550/-	
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			2520/-	3030/-	4510/-	5320/-
S 144	110 V. / 440 V.	1 A. / 5 A.	BUILT IN TRANSDUCER TYPE.			2770/-	3340/-	5320/-	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

$P(\max.) = \text{VICOS}_j$ Where $\text{COS}_j = 1$.

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

CALCULATED POWER = $500 \times 2.5 \times 1 = 1.25\text{kW}$

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

$P(\max.) = \sqrt{3} \text{VICOS}_j \times \text{PTR} \times \text{CTR}$ Where $\text{COS}_j = 1$.

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

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

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 $\text{COS}_j = 1$

and reactive power measuring instruments are calibrated at $\text{SIN}_j = 1$

All low power factor power measuring instruments are calibrated at $\text{COS}_j = 0.2$ lag.

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

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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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E-MAIL :	sood@nde.vsnl.net.in	aeibang@blr.vsnl.net.in	aei@md4.vsnl.net.in	aei@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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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

BRANCHES AT :

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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/-

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5. FREQUENCY METER

FREQUENCY METERS [VIBATING REED TYPE.]

RANGE	INPUT	ROW	RESOLUTION	MODEL	RFS - 96	RFS - 144
47 ~ 53Hz.	110V / 230V / 440V.	SINGLE	0.5Hz.	13 REEDS	1995/-	2820/-
45 ~ 55Hz.			1 Hz.	13 REEDS	1995/-	2820/-
45 ~ 55Hz.			0.5Hz.	21 REEDS	-	4730/-
RANGE	INPUT	ROW	RESOLUTION	MODEL	RFD - 96	RFD - 144
47 ~ 53Hz.	110V / 230V / 440V.	DOUBLE	0.5Hz.	13 REEDS	2655/-	3480/-
45 ~ 55Hz.			1 Hz.	13 REEDS	2655/-	3480/-
45 ~ 55Hz.			0.5Hz.	21 REEDS	-	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	-
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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PRICE LIST

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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	785/-
			ANY STANDARD DUAL RANGE (0-50/100 TO 0-500/1000mV)		845/-
			ANY STANDARD TRIPLE RANGE (0-50/100/200 TO 0-250/500/1000mV)		905/-
		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)		840/-
			ANY STANDARD TRIPLE RANGE (0-1.5/3/7.5 TO 0-250/500/1000V) (1:2:4 Ratio)		905/-

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	785/-
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-500/1000mA) (1:2 Ratio)		840/-
		VOLT	ANY STANDARD SINGLE RANGE (0-1 TO 0-30A)	1.0	785/-
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-15/30A) (1:2 Ratio)		840/-

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B) MINIATURE MOVING IRON PORTABLE					
a) AC VOLTMETER					
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)		840/-
			ANY STANDARD TRIPLE RANGE (0-75/150/300 TO 0-150/300/600V)		905/-
b) AC AMMETER					
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)		725/-
C) MOVING COIL PORTABLE					
a) DC VOLTMETER (Sensitivity 1000 ohms / V)					
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)		1935/-
			ANY STANDARD TRIPLE RANGE (0-25/50/100 TO 0-250/500/1000mV)		1995/-
			ANY STANDARD MULTI RANGE (0-25/50/100/200 TO 0-125/250/500/1000mV)		2050/-
PORT MSSB-1	DC	VOLT	ANY STANDARD SINGLE RANGE (0-0.5 TO 0-1000V)	1.0	1960/-
			ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-500/1000V)		1935/-
			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)		2050/-

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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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PRICE LIST

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b) DC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-1	DC	MICROAMP	ANY STANDARD SINGLE RANGE (0-100 TO 0-750 μ A)	1.0	2115/-
		MILIAMP	ANY STANDARD DUAL RANGE (0-1 TO 0-500mA))		2050/-
		AMPERE	ANY STANDARD SINGLE RANGE (0-1 TO 0-10A)		2175/-
			ANY STANDARD SINGLE RANGE (0-15 TO 0-50A)		2200/-
			ANY STANDARD SINGLE RANGE WITH EXT SHUNT OF 75mV (SHUNT PRICE EXTRA)		2050/-
		MILIAMP	ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-250/500mA)		2115/-
		AMPERE	ANY STANDARD DUAL RANGE (0-0.5/1 TO 0-5/10A)		1980/-
			ANY STANDARD DUAL RANGE (0-10/20 TO 0-25/50A)		2240/-
c) RECTIFIER TYPE AC VOLTMETER (Sensitivity 1000 ohms / V)					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-2	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-7.5 TO 0-1000V)	1.5	1935/-
			ANY STANDARD DUAL RANGE (0-7.5/15 TO 0-500/1000V)		1995/-
			ANY STANDARD TRIPLE RANGE (0-7.5/15/30 TO 0-250/500/1000V)		2050/-
			ANY STANDARD MULTI RANGE (0-7.5/15/30/60 TO 0-125/250/500/1000V)		2115/-

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d) RECTIFIER TYPE AC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-2	1PH	MILIAMP	ANY STANDARD SINGLE RANGE (0-10 TO 0-50mA)	1.5	1935/-
			ANY STANDARD SINGLE RANGE (0-75 TO 0-750mA)		1995/-
		AMPERE	ANY STANDARD SINGLE RANGE (0-1 TO 0-30A)		2115/-
e) RECTIFIER TYPE AC FREQUENCY METER					
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	2510/-
D) MOVING IRON PORTABLE					
a) AC VOLTMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-3	1PH	VOLT	ANY STANDARD SINGLE RANGE (0-15 TO 0-1000V)	1.0	1620/-
			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)		1842/-
b) AC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT MSSB-3	1PH	AMPERE	ANY STANDARD SINGLE RANGE (0-0.2 TO 0-30A)	1.0	1510/-
			ANY STANDARD SINGLE RANGE (0-50 TO 0-100A)		1800/-
			ANY STANDARD DUAL RANGE (0-0.2/1 TO 0-15/30A)		1650/-
			ANY STANDARD DUAL RANGE (0-25/50 TO 0-50/100A)		1935/-
			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)		2725/-

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BRANCHES AT :

DELHI	BANGALORE	CHENNAI	KOLKATA	SECUNDERABAD	PUNE
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) 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	3530/-
			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	3900/-
			ANY STANDARD DUAL RANGE (0-50/100mV TO 0-500/1000mV)		4000/-
			ANY STANDARD TRIPLE RANGE (0-50/100/200mV TO 0-250/500/1000mV)		4150/-
		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)		4135/-

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 :

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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



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PRICE LIST

(CIN U99999MH1960PLC011780)

b) DC AMMETER					
MODEL	PHASE	PARAMETER	RANGE	ACC. CLASS	PRICE
PORT LSPW-1 / SIZE: 300x 196x133 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)		4110/-
			ANY STANDARD SINGLE RANGE (0-10A TO 0-50A)		4235/-
		MILIAMP	ANY STANDARD DUAL RANGE (0-0.5/1A TO 0-300/600mA)		41140/-
		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)		4400/-
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	4535/-
			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	PARAMETR	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	6170/-
		ANY DUAL VOLTAGE (0-15/30V TO 0-300/600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)		6290/-
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)		6170/-
		ANY DUAL VOLTAGE (0-15/30V TO 0-300/600V)	ANY DUAL CURRENT (0-100/200mA TO 0-5/10A)		6290/-

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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 :

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Automatic Electric Ltd.

PRICE LIST

(CIN U99999MH1960PLC011780)

G) DYNAMOMETRIC PORTABLE INSTRUMENTS					
a) WATT UPF SINGLE PHASE					
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)		2895/-
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		3000/-
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	3000/-
			ANY STANDARD DUAL VOLTAGE (0-62.5/125V TO 0-300/600V)		3110/-
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		3210/-
b) WATT INSTRUMENTS LPF					
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)		6000/-
			ANY STANDARD TRIPLE VOLTAGE (0-62.5/125/250V TO 0-150/300/600V)		6010/-
		ANY STANDARD DUAL CURRENT (0-0.5/1A TO 0-15/30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)		6010/-
			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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 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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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)

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)		5320/-
		ANY STANDARD DUAL CURRENT (0-0.5/1A TO 0-15/30A)	ANY STANDARD SINGLE VOLTAGE (0-62.5V TO 0-600V)		5320/-
			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	3PH-1EL	1, 2.5, 5, 10A	110, 150, 300, 440, 600 V	1.5	4985/-
PORT LSDW-4	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		6625/-
PORT LSDW-5	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	3PH-2EL	0 - 0.5, 1, 2.5, 5, 10A	110, 150, 300, 440, 600, 150/300, 110/440, 300/600 V		7400/-
PORT LSDW-7	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°	6200/-
		2.5/5M 5/10, 10/20 A	250/500 V	± 2°	6600/-
PORT LSDW-9	3PH-3EL	0 - 0.5, 1, 2.5, 5, 10 A	110, 250/500 V	± 2°	7400/-

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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
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BRANCHES AT :

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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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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	50, 60, 75	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/-
	2500A			8125/-
T Section	3000A	50, 60, 75	1	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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PRICE LIST

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9. DIGITAL METER

A. DIGITAL AC METERS

a) AC VOLTMETER (4 Digits Programmable) : Series μ 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 μ 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 μ	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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PRICE LIST

(CIN U99999MH1960PLC011780)

c) AC VOLTMETER (4 Digits, Programmable with Built in Selector Switch)Series μ 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 μ 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.			

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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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)

B. DIGITAL DC METERS

a) DC VOLT METER (4 Digits, Range Programmable) Series μ 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 μ 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/-		

C. FREQUENCY METER (4 DIGIT) Series μ 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			0.2	48 x 96	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.

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Automatic Electric Ltd.

PRICE LIST

(CIN U99999MH1960PLC011780)

D) POWER FACTOR METER (4 DIGIT) Series μM						
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			4205/-

E. DIGITAL POWER METERS WITH IN BUILT TRANSDUCER (Series μ 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	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	0.5	3575/-
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 :**
- Above Digital Meters, except Frequency and Power Factor Meters, are with 3½ Digit display, i.e. indication upto 1 9 9 9.
 - 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.
 - Auxiliary Supply of 110V/240V 50Hz is required for all types of Digital Panel Meters except Frequency Meter.
 - Auxiliary supply of 24V DC, 48V / 110V / 220V DC can be supplied against specific enquiry
 - * Indicates subject to availability minimum 10 no's meters in a single order.
 - 4½ Digit Meter not available in 72 x 72 mm size.
 - 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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 METER DIVISION : 386, SURAIYA ROAD, NEAR SURAIYA BUNGALOW, VALVAN, LONAVLA - 410 401. MAHARASHTRA, INDIA. TEL. NO. : 02114-273148

BRANCHES AT :

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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)

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 :

1) RS 485 Communication Port can be provided on the Static Energy Meters at the following EXTRA CHARGES per Meter.

a) Static Energy Meter with Accuracy Class 1.0 : @ Rs. 700.00

b) 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.

2) 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.

3) MS-Windows compatible 'Energy Monitoring Software' - "KWH SOFTCOM" is available at extra cost.

4) While ordering these Meters, please state the Model Nos. mentioned in the Price List.

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BRANCHES AT :

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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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Automatic Electric Ltd.

PRICE LIST

(CIN U99999MH1960PLC011780)

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/-				
SPECIFICATIONS:							
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	Avrg. Voltage	√	√	√	√		
4	Current (R, Y, B)	√	√	√	√		
5	Avrg. 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		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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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)

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	5775/-
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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 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
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

MODEL : PMT-9 with 4 analogue & 2 Digital Outputs (With RS-485 Port)	17,050/-
MODEL : PMT-9 with 2 Output	14200/-
MODEL : PMT-9 with 4 Output with accuracy 0.2%	17050/-
MODEL : PMT-R	5700/-

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/-

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

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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)

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/KVAr	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/-

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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