PRECISE ELECTRICALS

An ISO 9001:2015 Company

Product Catalogue

Company Profile

PRECISE ELECTRICALS Established in 1970, has evolved itself into a formidable force in the power sector in India. Specializing in supplying of Low voltage instrument transformers for Switchboard, Switchgear, Furnace application, Isolation purpose and for energy meters have been the key area of expertise. It is in this arena that Precise with its unique technology, proven capabilities & essential tie-up brings in an unbeatable combination of experience, youth and fraternity. With a re-engineered and raring to go team, Precise is ready to face the dynamic changes and challenges in the domestic and global markets to build new inroads for products and to help fill customer needs, quickly and reliably.

Precise Electricals manufacture more than 25000 nos. of transformers monthly meeting international quality standards, ensuring highest level of compliance to quality, environment, health and safety which explains it's outstanding global reputation. Precise fosters a culture that foresees the future and responds pro-actively to its challenges, while delivering maximum value to our customers through technology, quality and service.

Precise products are known and approved universally for their Quality, Accuracy and Reliability. This is due to emphasis on design, engineering and manufacturing for more than 40 years in this sector.

Precise adhere to international standards by acquiring & adapting latest technologies along with in-house R & D. All products are manufactured under ISO 9001 certified plants, wherein manufacturing and testing activities are carried out as per relevant **IS, IEC, ANSI, BS** and other international standards. Precise continuous improvement program ensures established products are always updated.

Infrastructure

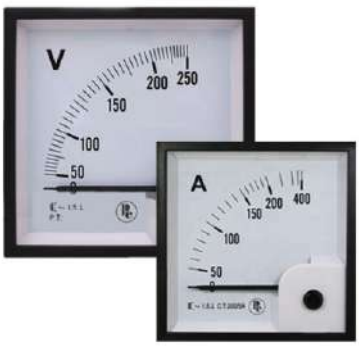
Precise Electricals is privileged with a well-structured infrastructure facility. It is further divided into different segments such as Marketing & Sales Office, Manufacturing Production Floor, Quality Control Department, Quality Assurance Department, Research and Development Department, Purchase & Stores Department, Packaging and Administrative Department located at Wagle Estate, Thane, Maharashtra, India.

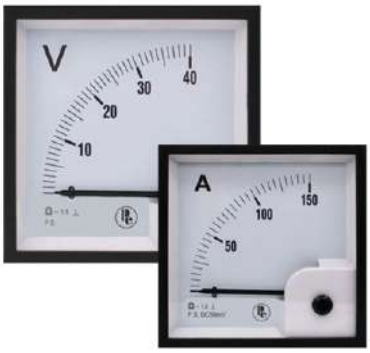
Product Range

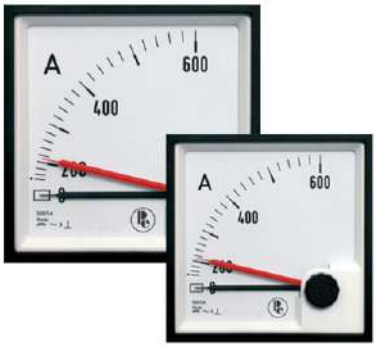
Instrument Transformers : CTs, VTs, Line Chokes, Control Transformers for Low Voltage Application, & Voltage Class 50V to 1000V.

All type Digital Meters : Digital Ammeters & Voltmeter, Single Source & Dual Source KWH Meters, Multifunction Meters, Intelligent Load Managers, APFC Controllers, Earth Leakage Relays & CBCT Voltage Relays & Current Relays

Analog Panel Meters







Description	AC Voltmeter and Ammeter	DC Voltmeter and Ammeter	Maximum Demand Ammeter
Electrical Specifications			
Type	Moving Iron.	Moving Coil	Bimetallic
Operating Voltage	6V to 750V	50mV to 600V	—
Operating Current	1A to 100A	50µA to 30A & Above 30A external shunt (60mV, 75mV). Direct meters can be given upto 100 Amps	..../5A (..../1A on request) Thermal time delay 15 min
Frequency	45 - 65Hz.	—	45 - 65Hz.
Accuracy Class	1.5		3.0
Pointer	Knife Edge		
Pointer Deflection	0...90°		
Scale Characteristics	Near Linear	Linear	Near Linear
Over Range			
Ammeters	2 times nominal current	—	1.2 times nominal current
Voltmeters	1.2 times nominal voltage	—	—
Scale Interchangeability	Interchangeable	—	Interchangeable
Dielectric Test	2kV RMS for 1 minute.		
Overload Continous	1.2 times		
Overload Short Time	2 times VN / 10 times IN for 1 seconds.		10 times IN for 1 seconds.
Operating Temperature	-10°C to 55°C		
Storage Temperature	-20°C to 70°C		
Humidity	95% RH		
Applicable Standards	IS: 1248 (IEC 51/ DIN EN 60051)		
Size	72 (L)x 72 (W)x 65(D)mm / 96(L) x 96(W) x 65(D)mm		
Panel Cutout	68mm x 68mm / 92mm x 92mm		
Weight (Approx. gms.)	<0.19kg for 72 Size <0.21kg for 96 Size	<0.21kg for 72 Size <0.23kg for 96 Size	<0.25kg for 72 Size <0.27kg for 96 Size

Basic Digital Panel Meter

Digital AC Voltmeter

Model Number	PE 9910	PE 9913	PE 9933
General Features	User Friendly Interface		
	Easy to install		
	Maximum range upto 750 Volts		
Display	Bright LED Display with 1 row of 3 Digits	Bright LED Display with 1 row of 3 Digits	Bright LED Display with 3 rows of 3 Digits
		Bulit-in Selector Switch for 3ph Voltage Display	
System Type	1Φ2W	3Φ4W	
Rated I/P Voltage	0-750V AC		
Auxiliary Supply	230V AC ± 10%		
Rated Frequency	50Hz ± 5%		50/60 Hz
Operating Temp.	+5°C to +60°C		
Accuracy	Class 1.0 (± 1 digit)		
Dimensions	96(L)x96(W)x60(D) mm		
Panel Cut Out	91mm x 91mm		
Weight	0.35Kg		0.42Kg

Model Number	PE 9920	PE 9923	PE 9943
General Features	User Friendly Interface		
	Easy to install		
	Maximum range upto 750 Volts		
Display	Bright LED Display with 1 row of 4 Digits	Bright LED Display with 1 row of 4 Digits	Bright LED Display with 3 rows of 4 Digits
		Bulit-in Selector Switch for 3ph Voltage Display	
CT Primary Current	upto 9900A		
Rated secondary Current	..../5A		
Maximum Range upto	upto 9900A	6000A	1600A
Auxiliary Supply	220-240V AC		230V AC ± 10%
Rated Frequency	50/60 Hz ± 5%		
Operating Temp.	+5°C to +60°C		
Accuracy	Class 1.0 (± 1 digit)		
Dimensions	96(L)x96(W)x60(D) mm		
Panel Cut Out	91mm x 91mm		
Weight	0.35Kg		0.48Kg

Digital Multifunction Meter

Digital VIF Meter

Model Number	PE 9990
General Features	Combined display voltage, current and frequency
	User Friendly Interface
	Easy to install
	Auto & Manual Scroll
Display	Bright LED 3 line Display
	P-N Voltage of each phase
	P-P Voltage of each phase
	Current of each phase
	Frequency
Rated Primary Current	upto 9900A
Rated secondary Current	…./5A
Low Current	1% (50mA)
Auxiliary Supply	230V AC ± 10%
Rated Frequency	50/60 Hz ± 5%
Operating Temp.	+5°C to +60°C
Accuracy	Class 1.0 (± 1 digit)
Dimensions	96(L)x96(W)x60(D) mm
Panel Cut Out	91mm x 91mm
Weight	0.70Kg

Maximum Demand Controller

Model Number	PE 4300-SS
General Features	1 Alarm point and 1 tripping point (potential free)
	Password protected
	Adjustable integration time of 15 or 30 minutes.
	On site programmable
	Clock setting facility to match EB clock
	Easy to install
	User friendly
Display	2 x 16 Alphanumeric large LCD Display
Voltage Input	415V AC ± 15%
Current Input	5A (1A on request)
Auxiliary Supply	230V AC ± 10%
Rated Frequency	50/60 Hz
Operating Temp.	+5°C to +60°C
Accuracy	Class 1.0 (± 1 digit)
Dimensions	144(L)x144(W)x80(D) mm
Panel Cut Out	138mm x 138mm
Weight	0.70Kg
Parameters	Continuous display of:
	a. Average KVA demand
	b. Instantaneous demand, RMS voltage, RMS current
	c. Selectable display of setting
	Selectable Display
	a. Present and previous maximum demand
	b. Trip status of contact

Digital Multifunction Meter

Digital Energy Meter

Model Number	PE 9980	PE 9980R	PE 9980D	PE 9980DR
Description	Digital Energy Meter	Digital Energy Meter with RS485	Digital Energy Meter Dual Source	Digital Energy Meter with Dual Source RS485
General Features	Microcontroller based technology			
	Password protection			
	Confirms IEC Standards			
	High resolution			
	Easy readability			
Display	Alphanumeric backlit LCD Display			
	Resolution upto 8 digits (99999999.9)			
Communication	–	RS485	–	RS485
Input Voltage	–			
Input Current	–			
Auxiliary Supply	230V AC ± 10%			
Rated Frequency	50/60 Hz ± 5%			
Operating Temp.	+5°C to +60°C			
Accuracy	Class 1.0 (± 1 digit)			
Dimensions	96(L)x96(W)x60(D) mm			
Panel Cut Out	91mm x 91mm			
Weight	0.49Kg			

Digital Multifunction Meter

Digital Multifunction Meter

Model Number	PE 9900P	PE 9900PR	PE 9900	PE 9900R	PE 9900 GPRS
Features	User friendly interface				
	Easy to install				
	Site adjustable CT ratio				
	Site adjustable integration time 15min or 30 min for average demand (PE 9900/PE 9900R/PE 9900 GPRS Models)				
	Password protected				
	Date and Time Settings				
Display	20 x 4 Alphanumeric backlit large LCD Display				
Communication	–	RS485	–	RS485	RS485 + GPRS
Voltage Input	230V AC ± 15%				
	Voltage I/P: 110V AC (Optional) (H. T Model)				
	Special meter for furnaces (570V AC) (optional)				
Current Input	Standard 5A (1A on request)				
Auxiliary Supply	230V AC ± 10%				
Rated Frequency	50/60 Hz				
Low Current	1% (50mA)				
Operating Temp.	+5°C to +60°C				
Accuracy	Class 1.0 (0.5, 0.2 On request)				
Dimensions	96(L)x96(W)x60(D) mm				144(L)x144(W)x80(D)
Panel Cut Out	91mm x 91mm				138mm x 138mm
Weight	0.49Kg				0.59Kg
Parameters	Three Line Voltage & Current		Three Line Voltage & Current		
	Three Phase Voltages & Currents		Three Phase Voltages & Currents		
	Power factor of each phase and frequency		Power factor of each phase and frequency		
	Active Power (KW), Apparent Power (KVA),		Active Power (KW), Apparent Power (KVA), Reactive Power (KVAR), Total Power		
	Reactive Power (KVAR), Total PowerTotal Active Energy		Active Energy (KWh), Apparent Energy (KVAh), Reactive Energy (KVARh), Total Energy		
	–		Average and Maximum Demand		
	Average Power Factor of each phase		Average Power Factor of each phase		
	Real Time Clock		Real Time Clock		
	Display of last reset date and time of energy		Display of last reset date and time of energy and maximum demand		

Digital Multifunction Meter

Intelligent Load Manager

Model Number	PE 4600	PE 4600-T	PE 4600-P	PE 4600-BTP	PE 4600-S	PE 4600-ST
Description	Available with block window method	Available with block window & TOD facility	Available with block window & predictive demand	Available with block window, TOD & predictive demand facility	Available with sliding window method	Available with sliding window & TOD facility
Features	1 Alarm point and 3 tripping point (potential free)					
	PC interface facility with RS-485.					
	True RMS measurements.					
	Model available for LT as well as HT.					
	Selectable display of present & previous KVA.					
	Facility for Date & time settings.					
	Uses advanced DSP processor.					
	Low PT, CT burden.					
	Auto reset facility for maximum demand with programmable date & time.					
	Cost effective energy management solution.					
	Easy user interface & easy installation.					
	Confirms to IEC standards.					
Display	16 x 4 Alphanumeric large LCD Display					
Communication	RS485					
Voltage Input	415V AC ± 15%					
Current Input	Standard 5A (1A on request)					
Auxiliary Supply	230V AC ± 10%					
Frequency	50/60 Hz					
Low Current	1% (50mA)					
Operating Temp.	+5°C to +60°C					
Accuracy	Class 1.0					
Dimensions	144(L)x144(W)x80(D)					
Panel Cut Out	138mm x 138mm					
Weight	1.5Kg					
Parameters	Phase to Neutral & Phase to Phase Voltage					
	Current of each phase					
	Three Phase Voltages & Currents					
	KW of all phases & total KW					
	Power factor of each phase and frequency					
	KVA of all phases & total KVA					
	Active Power (KW), Apparent Power (KVA), Reactive Power (KVAR), Total Power					
	KVAH of all phases & total KVAH					
	Active Energy (KWh), Apparent Energy (KVAh), Reactive Energy (KVARh), Total Energy					
	KVAR of all phases & total KVAR					
	Average and Maximum Demand					
	Instantaneous PF of all 3 phases					
	Average Power Factor of each phase					

Digital Multifunction Meter

Automatic Power Factor Controller



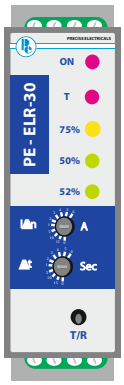

Model Number	PE 66XX	PE 66XXSS	PE 66XX-E3	PE 66PK
Key Features	Available in 4 to 16 stages	Intelligent KVAR based switching	User Friendly interface	Intelligent KVAR based switching
	Intelligent KVAR based switching	Intelligent with best fit control	Easy to install.	Friendly user interface
	LED indication of capacitor stages	Ideal for thyristor modules	Complete menu guided programming	Easy to install
	Dual setting for Generator and EB	Ajustable capacitor time delays	operation and display	—
	power factor (Optional)	Stages 4 to 16	Best fit capacitor switching	—
	Available in HT-CT sensing	Menu driven user friendly handling	Test mode for Panel Testing	—
	Switching delay of 1 sec	Alarm output	No of stages can be configured at site	—
	—	Easy to install	Automatic / Manual capacitor value feed	—
	—	Smart switching	Password protected settings.	—
	—	—	HT CT sensing for HT application (Optional)	—
Key Features	Password protected	Password protection for settings	Site adjustable CT Primary.	Site settable C.T. Primary from 5 to
	Site settable	Adjustable %KVAR switching capacity	Adjustable value of Target PF	7500 A
	a. %KVAR switching capacity	Adjustable value of Target PF	Switching Delay	Target PF
	b. Target PF	Adjustable CT primary	Lock out time for power on	Switching delay
	c. CT primary	Adjustable time delay from 1 sec for	Capacitor disconnection in case of	Lockout time for power ON
	d. Switching delay	switching ON insteps for 1 sec	Low Current	Auto identification or Manual feeding
	e. Lockout time for power ON	Models available in 4,6,8,12,14,16 steps	Auto identification or manual feeding	of capacitor values
	f. Harmonic(THD) overload protection	Adjustable settings for % THD (Total	of capacitor values	Manual switching facility
	g. No.of stages can be selected	harmonic distortion) protection	Manual switching facility	Test mode facility
	Capacitor disconnection in case of	Disconnection in case of low current	Test mode facility	Password protection for settings
	low current	Adjustable number of maximum stages.	—	—
	Auto identification or manual	Adjustable lock time for power ON	—	—
	feeding of capacitor values	Auto identification or Manual feeding	—	—
	Manual switching facility	of capacitor values	—	—
	Test mode facility	Manual switching facility	—	—
	—	Test mode facility	—	—
Display	Large alphanumeric LCD Display (2 x 16 characters)			Large alphanumeric LCD display (20 X 4 characters)
Voltage Input	415V AC ± 15%		230V AC ± 15% OR	230V AC ± 15%
			415V AC ± 15%	
			110V AC (Optional) (HT Model)	
Current Input	Standard 5A (1A on request)	..../5A	Standard 5A (1A on request)	Standard 5A (1A on request)
Auxiliary Supply	230V AC ± 10%			
Frequency	50/60 Hz			
Low Current	1% (50mA)			
Operating Temp.	+5°C to +60°C			
Accuracy	Class 1.0		Class 1.0 (Class 0.5, 0.2 Optional)	Class 1.0
Switching Contact	10A at 250V AC		—	10A at 250V AC
Switching Interval	5 to 1200 sec	1 to 1200 sec	—	5 to 1200 sec
	Intelligent (Best fit)	Most Intelligent (Best fit)	—	Intelligent (Best fit)
No.of Stages	4,6,8,12,14,16		6, 8, 10. 12, 16	Available in 12 stages
Target PF	—	0.71 Lag to 0.80 Lead	—	—
Mode	—	Auto/Manual		
Dimensions	144(L)x144(W)x80(D)			
Panel Cut Out	138mm x 138mm			
Weight	1.5Kg	1Kg	—	1.5Kg
Parameters	Voltage, Current, Power factor	Voltage, Current, Power factor	Phase to Neutral Voltage & Current	Power Factor (RYB)
	KVA and KVAR on display	KW, KVA and KVAR on display	KW, KVA and KVAR on display	Voltage (RYB)
	Shortfall KVAR/ Excess KVAR	Shortfall KVAR/ Excess KVAR	Power Factor of each phase	Current (RYB)
	THD - 3rd to 13th harmonics	THD - 3rd to 13th harmonics & % THD	Shortfall KVAR/ Excess KVAR with sign	Shortfall KVAR
	Capacitor Values	Capacitor Values	—	KW, KVA and KVAR each phase
	—	Capacitor stages status	—	—
	—	Alarm Message	—	—

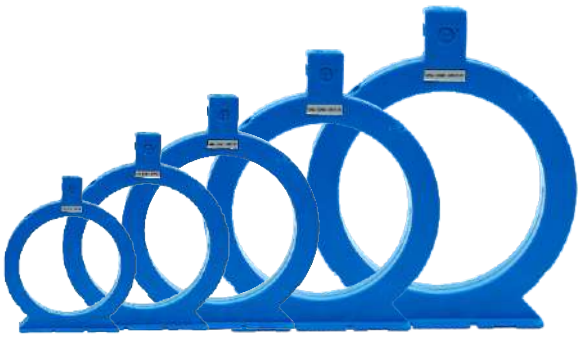
Digital Multifunction Meter

Automatic Power Factor Controller

Model Number	PE 55XX	PE 55XXSS	PE 55XX-2D
Key Features	FIFO Switching	Intelligent KVAr based switching	FIFO Switching
	Friendly user interface Easy to install	Friendly user interface	Low cost
	—	Easy to install	Easy to install
Control Features	Site settable two point target PF	Site Settable	Site settable two point target PF
	Capacitor disconnection in case of low current	a. Target PS	Capacitor disconnection in case of low current
	Test mode facility	b. CT primary	Test mode facility
	—	c. Auto identification or Manual Feeding of	—
	—	capacitor values	—
	—	Capacitor disconnection in case of Low current	—
	—	Test Mode Facility	—
Display	Large 4 digit 7 segment display		Large 2 digit 7 segment display
No.of stages	4, 6, 8, 12, 16		4, 6, 8
Voltage Input	415V AC ± 15%		
Current Input	Standard 5A (1A on request)		
Auxiliary Supply	230V AC ± 10%		
Over voltage release	470V AC ± 1%		—
Frequency	50/60 Hz		
Low Current	1% (50mA)		1.8% (90mA)
Switching contact	10A at 250V AC		
Switching time	5 sec		5 sec (1 sec optional)
Operating Temp.	upto 95%		
Accuracy	Class 1.0		
Dimensions	144(L)x144(W)x80(D)		96(L)x96(W)x110(D)
Panel Cut Out	138mm x 138mm		92mm x 92mm
Weight	1.5Kg		—
Parameters	Power Factor	Power Factor	Power Factor
	LED indication of capacitor ON/OFF status	LED indication of capacitor ON/OFF status	LED indication of capacitor ON/OFF status
	—	LED indication for LAG or LEAD P.F	LED indication for LAG or LEAD P.F
	—	KW, KVA and KVAR on display	
	—	Shortfall KVAR/ Excess KVAR	

Earth Leakage Relay & Core Balance Current Transformer



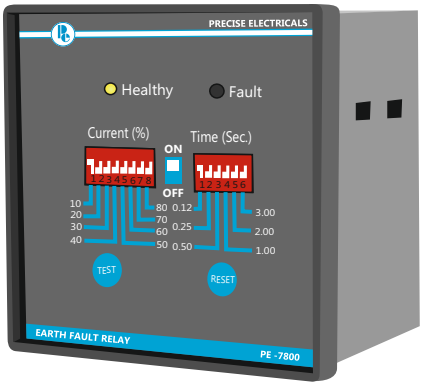


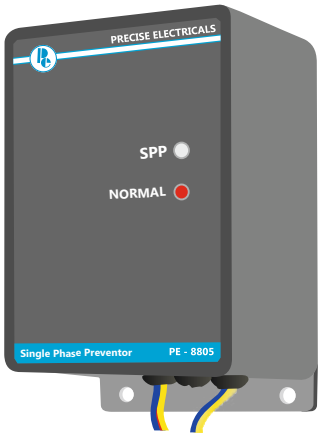
Description	Earth Leakage Relay
Model Number	PE ELR-30
General Features	30 mm Slim Polycarbonate DIN Rail
	Mounted Enclosure.
	Versatile Input that can sense 30 mA to 30 A.
	PE-ELR-30 monitors & detect true RMS earth leakage currents using separate Core Balance Current Transformer.
	Distinct LEDs indicates leakage current magnitude.
	Adjustable sensitivity (IÄn) and Trip Time
	Delay(Ät) – instantaneous to 10 Secs
	Single Trip / Reset Button
	Potential free output on tripping
Auxiliary Supply	220-240V AC @ 50/60 Hz
Power Consumption	5VA
LED Indication	RED - Power Presence
	RED - T Unit under trip state
	YELLOW - Indicates 75% leakage current
	GREEN - Indicates 50% leakage current
	GREEN - Indicates 25% leakage current
Monitored Leakage Current	Upto 30A (Through external toroid of 1000:1 ratio
Sensitivity Adjustment (IΔn)	0.03, 0.1, 0.3,0.5mA, 1, 3, 5, 10, 20, 30A
Trip Level	80% of (IΔn)
Trip time delay adjustment	0, 0.15, 0.25, 0.5, 1, 2, 3, 5, 7.5, 9
Output	SPDT 5A @230V AC
Ambient Temp.	-20°C to +55°C
Relative Humidity	upto 95%
Mounting	TS 35 DIN Rail
Connection	Screw Clamp suitable for 2.5sqmm
Dimension	110(L)x30(W)x72.5(D)mm

Description	CBCT
General Features	Flame retardant high impact molded case for better insulation and strength
	Integral wires terminals cover with perfect IP protection
	Compact Design suitable for Panel Mounting
	Perfect combination to use with Precise ELR30.
Highest System Voltage	0.72 kV
Insulation Voltage	3 kV/ 1 min
System Frequency	50/60 Hz
MOPC	10 Amps (±5%)
Sec. Relay Setting	10 mA
Operating Temp	0°C to 55°C
Storage Temp	-20°C TO 70°C
Model Number	**Inner Diameter**
PE-CBCT-35	35mm
PE-CBCT-70	70mm
PE-CBCT-120	120mm
PE-CBCT-210	210mm
PE-CBCT-310	310mm
Linear Tolerance ±0.1mm	

Protection Relay

Earth Fault & Single Phase Preventer Relay





Description	Earth Fault Relay
Model Number	PE 7800
General Features	RESET Switch
	TEST Switch
Auxiliary Supply	230V AC (110V AC & 415V AC optional)
LED Indication	FAULT
	A Red LED Indicates the Fault or Trip Condition
	HEALTY
	A Green LED indicates the normal Condition
LED Indication	Variable from 10 % to 80 %, settable with DIP switches
	in three different models
Trip Time	0.15 Seconds to 3.00 seconds settable with DIP switches
Relay Contacts	Potential free NO-C-NC, 10Amps at 250 VAC contacts
Trip Indication	LED
Accuracy	± 1% tolerance
Dimension	96(L)x96(W)x60(D)mm
Panel Cutout	91mm x 91mm
Weight	0.36 Kg

Description	Single Phase Preventer
Model Number	PE 8805
General Features	Easy to install
	User friendly
	Normal indication available
	SPP indication available
Control Features	Single Phasing
	Reverse Phasing
	Unbalanced Supply
Auxiliary Supply	415V AC
Frequency	50/60 Hz65
Dimensions	(W)x110(H)x55(D) mm
Weight	0.30Kg-
Operating Temperature	10°C to +70°C
Mounting Type	Wall

Motor Protection & Master Relay

Description	Motor Master Relay
Model Number	PE 21xx
Key Features	As a special feature the relay can be used to motor having forward & reverse
	Operations giving the protections except incorrect phase sequences.
	Advance microcontroller technology.
	Overload protection with inverse time characteristics.
	Over Load protection
	Unbalance protection.
	Phase unbalance.
	Incorrect phase sequence.
	Ultra compact size.
	Visual indication of S.P.P. & overload.
	Settable overload current & time.
CT Input	5A, 15V AC
Auxiliary supply	440V AC
AC burden	10V AC at rated current
Relay O/P	10A at 250V AC
Over Current Setting	2A to 5A continuously adjustable
Inverse time characteristics	Selectable thermal characteristics curve
	2 to 10 sec continuously adjustable
Unbalance current	50% unbalance,
	Tripping time: 3sec.,
	Inverse characteristics unbalance
Single phase failure tripping time	3sec
Reverse phase tripping time	3sec
Mounting	Wall mounting/Panel
	35mm DIN rail
Weight	0.45 Kg

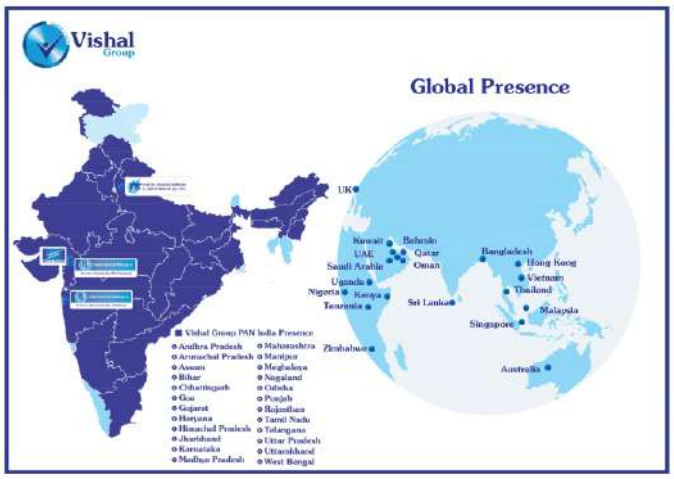
Description	Motor Protection Relay
Model Number	PE 2220
Key Features	Advance Micro controller based state-of-art technology
	Selectable inverse time curves.
	Protection against:
	a. Unbalance
	b.Single phasing
	c.Reverse phasing
	d. Overload
	e. Stalling
	f. Undercurrent
	g. Earth fault
	Common tripping for all protective function.
	Thermal overload protection.
	Alarm for tripping.
	Ultra Compact size.
CT Input	5A, 15V AC
Auxiliary supply	440V AC
AC burden	10V AC at rated current
Relay O/P	10A at 250V AC
Frequency	50/60 Hz ± 5%
Overload setting	30 % to 110%
Tripping time	Inverse time: as per thermal curve
	Definite time: (0 to 30 sec)
Under current	20%-50 %, tripping time: 30 sec
Motor stall	200-600 %, tripping time 30 -300 Sec
Earth fault	1 A-3 A, tripping time: 1 Sec -20 Sec
Unbalance	25-100 %, Inverse
	Phase Failure tripping time: 5 sec
	Reverse Phase tripping time: 0.1 sec
	Motor start time 0-10 sec
	Reset Manual reset
Phase Failure	Tripping time: 5 sec
Reverse Phase	Tripping time: 0.1 sec
Motor start time	0-10 sec
Reset	Manual reset
Dimensions	Panel Mounting: 144(w)x144(h)x80(d)mm
	Wall Mounted: 115(w)x115(h)x75(d)mm
Panel Cutout	138 X 138 mm
Weight	0.45 Kg

Protection Relay

Voltage & Current Relay

Description	UV/OV Relay
Model Number	**PE 8802**
Key Features	User Friendly
	Advance micro controller technology.
	Protection against under voltage over voltage.
	Protection against voltage unbalance and single phasing.
	Protection against Phase reversal.
	Easy to operate.
	Ultra compact size.
	Reset Facility.
Display Features	Normal Indicator
	Under Voltage Trip Indicator
	Over Voltage Trip Indicator
	Reverse Phase Trip Indicator
	Single Phase Trip Indicator
	Voltage Unbalance Trip Indicator
Supply Voltage System	415V AC
Phase unbalance	20%
Under Voltage	80% to 95%
Over Voltage	105% to 120% (adjustable)
Power on delay	2.0 sec ±0.5 sec.
Trip Time Delay	On OV less than 1 sec
	On phase fail ,reverse phase, UV and UNB 5secs
Auxiliary supply	230V AC (110V AC and 415V AC optional)
Relay output	Potential free NO-C-NC, 10 Amps at 250V AC contacts
Operating temp range	0°C to +70°C
Calibration	PE 8802 is calibrated with our standard meter (which is calibrated with YOKOGOWA, meter)
Accuracy	± 2% tolerance
Dimension	70(W)x60(H)x110(D)mm
Mounting	DIN rail
Body	Plastic

Description	UC/OC Relay
Model Number	**PE 8803**
Key Features	User friendly interface
	Easy to Install
Display Features	Normal condition
	Under current condition
	Over current condition
Supply Voltage System	230/380/415/440V AC ± 20%
Under current	10% to 100% (adjustable)
Over current	50% to 140% (adjustable)
Trip time delay	1 to 10 sec (adjustable)
Auxiliary supply	230V AC (110V AC and 415V AC optional)
Relay output	Potential free NO-C-NC, 10 Amps at 250V AC contacts
Operating temp range	10°C to +70°C
Calibration	PE 8803 is calibrated with our standard meter
	(which is calibrated with YOKOGOWA, meter)
Accuracy	± 1% tolerance
Dimension	70(W)x60(H)x110(D)mm
Mounting	DIN rail
Weight	0.42Kg



PRECISE ELECTRICALS is the part of Vishal group of companies which is established in the year 1970 as Vishal Electricals in Meerut,(UP), India who is pioneer in manufacturing of all types of Instrument Transformer (Dry type, Resin Cast, Oil Impregnated -OIP).

Vishal Group of companies Vision is to be recognized as a reputable brand and source for Instruments Transformers and other power equipment within and outside India; that our products when supplied, should provide absolutely trouble free service to the nation and to our valuable customers.

Our Customers

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GE
sterling generators
Godrej
C&S electric
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SIEMENS
JAKSON emPowering People
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NUCLEAR POWER CORPORATION OF INDIA LIMITED
इंडियनऑयल IndianOil
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International Approvals

هيئة كهرباء ومياه دبي
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Saudi Electricity Company
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PRECISE ELECTRICALS LV DIVISION
Thane (Maharashtra)

PRECISE ELECTRICALS MV DIVISION
Vadodara (Gujarat)

VISHAL TRANSFORMERS & SWITCHGEAR (P) LTD.
Meerut, (UP)

HIVOLTRANS
Halol, (Gujarat)

*Product development is a continuous process. Consequently, data in this catalog is subject to change without prior notice. For latest updates please contact our office.

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