

# EAPL

Products Catalogue 2014-15

[www.eaplindia.com](http://www.eaplindia.com)



Electronic Timers | Tachometer | Digital Counters | Digital Temperature Controllers | Time Switches | Monitoring Devices  
Power Supply Modules | Programmable Fault Annunciators | Energy Management System | Hour Meter

Empowering Industries with innovation for over 30 years.



Nearly Thirty years have whizzed past and when it comes to innovation, we are still counting. The EAPL Saga was set off in the year 1984 with the first electronic timer named A1D1 which flagged off a revolution in the Automation market. Today with a manufacturing plant of a voracious size bearing a capacity of 300000 Units/Year, we have over 100 innovative products to be precise. We are heading to the next destination, armed with a culture of transparency, a people-oriented approach and the trust of hundreds of varied industries in India.

### Awards & Recognitions

Twice Awarded as outstanding Company from Government of India, DOE -1992, 95.

Business Excellence Award from ELCINA, Dun & Bradstreet - 2006-07

Product Certification from CSA International for safety and CE European standards for limited products.

NATIONAL AWARD – 2008 From Government of India Ministry of MSME

Listed by SAP India for Global Reference Program -2008

### Approvals and Clientele



# A-Series

Electronic Timers

## Features

- Din sized enclosure for Track (Din Rail) / Screw mounting
- Front terminal protective cover for safety
- LED indication for timing in progress

## AIDA

- External (Zero volt / potential free) command contact for timing initiation.

**Dimensions:** Over-all: 22.5 X 75 X 102mm (W X H X D).



**Applications:** AMF panels, Automation panels, HT / LT panels, MCC panels, C & R panels, RTCC panels, Transformer panels and many more

## Ordering Information

Model	Function	Source Voltage	Time Selection	Output	CSA Approved	CE Approved
<b>Regular</b>						
A1D1 (CSA)	On-Delay	240V AC	0.3secs to 30mins	2 c/o Relay	✓	✓
A1D1-X (CSA)	On-Delay	X-Version*	0.3secs to 30mins	2 c/o Relay	✓	✓
A1D1-X (60M) (CSA)	On-Delay	X-Version*	0.6secs to 60mins	2 c/o Relay	✓	—
A1DE-X (CSA)	Interval	X-Version*	0.3secs to 30mins	2 c/o Relay	✓	—
A1DN-X (CSA)	Auxiliary Relay	X-Version*	20msecs	2 c/o Relay	✓	—
A1DCS-X (CSA)	Cyclic - Equal Off-On	X-Version*	0.6secs to 60mins	2 c/o Relay	✓	—
A1D1 (8-30V)	On-Delay	8V DC to 30V DC	0.3secs to 30mins	2 c/o Relay	—	—
A1DA	Signal Off-Delay	110V AC / 240V AC	0.3secs to 30mins	1 c/o Relay	—	—
A1DS	Star-Delta	110V AC / 240V AC	0.6secs to 60secs, *TD 40ms / 100ms	1c/o (C-NO) Star 1c/o (C-NO) Delta	—	—
A1D1 (WB)	ON-Delay (Wide Band)	266V AC to 456V AC	3secs to 30secs	1 c/o Relay	—	—
A1DH-1	Power Off-Delay	240V AC**	18secs to 180secs	2 c/o Relay	—	—
<b>Optional</b>						
A1D1-X (10S)	On-Delay	X-Version*	1sec to 10secs	2 c/o Relay	—	—
A1D-E	Interval	8-30V DC	0.3secs to 30mins	2 c/o Relay	—	—
A1DN-X (80mS)	Auxiliary Relay	X-Version*	80msecs	2 c/o Relay	—	—
A1DA	Signal Off-Delay	24V DC	0.3secs to 30mins	2 c/o Relay	—	—
A1DS	Star-Delta	240V AC, 60Hz	0.6secs to 60secs, *TD 40ms / 100ms	1c/o (C-NO) Star 1c/o (C-NO) Delta	—	—
A1DH-1	Power Off-Delay	24V DC ** / 240V AC **	0.6secs to 6secs	2 c/o Relay	—	—

\* X-Version: 24V AC to 240V AC, 24V DC to 220V DC.

\*\* Minimum 2secs of aux. supply required for each cycle, else timer may malfunction

\*TD – Transfer Delay time to change from star to delta.

### Features

- Din sized enclosure for Track (Din Rail) / Screw mounting

#### B1DCA-X, B1DCA-T:-

- Independently selectable On and Off time.

#### B1DCA-T:-

- Hold / Restart facility during power fail conditions.
- Program lock facility is provided for tamper proof operation.

#### SPP-T:-

- Trips under phase missing, phase reversal or phase unbalance
- Auto / Manual switch for mode of operation
- In manual mode, terminals provided to connect to switch so as to manually switch On and switch Off load.



**Dimensions:** • Over-all: 45 X 75 X 116mm (W X H X D).

**Applications:** Lubricating systems, DG Sets, MCC panels, Pump panels and many more...

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output
<b>Regular</b>				
B1DCA-X	Cyclic Adjustable On-Off	X-Version*	0.6secs to 60mins	2 c/o Relay
B1DCA-T	Cyclic Adjustable On-Off	110V AC / 240V AC	0.1secs to 10hrs	2 c/o Relay
B1DS	Star-Delta	440 V AC	0.6secs to 60secs, *TD time 40ms / 100ms	1 c/o (C-NO) Star, 1 c/o (C-NO) Delta
B1DH-Q	Power Off-Delay	110V AC to 240V AC, 110V DC to 220V DC**	6secs to 60secs	2 c/o Relay
B1DF	On-Delay with instant contact	110V AC / 240V AC	0.3secs to 30mins	1 c/o On-Delay, 1 c/o Instant
SPP-T	Monitoring of power healthiness - Phase missing, reversal, unbalance	415V AC (self powered)	**TDT-factory set	1 c/o Relay
<b>Optional</b>				
B1DCA-T	Cyclic Adjustable On-Off	240V AC / 110V AC / 12V DC	0.24secs to 24hrs	2 c/o Relay
B1DH-Q	Power-Off Delay	110V AC to 240V AC, 110V DC to 220V DC**	1.5secs to 15secs	2 c/o Relay
B1DH-Q	Power-Off Delay	110V AC to 240V AC 110V AC to 220V DC**	0.6secs to 6secs	2 c/o Relay
B1DH-Q	Power-Off Delay	24V DC**	6secs to 60secs	2 c/o Relay
B1DF	On-Delay with instant contact	24V DC	0.3secs to 30mins	1 c/o On-Delay, 1 c/o Instant

\* X-Version: 24V AC to 240V AC, 24V DC to 220V DC

\*\* Minimum 1 sec. of aux. supply required for each cycle, else timer may malfunction.

\*TD - Transfer delay time to change over from Star to Delta

\*\*TDT - Trip delay time once unhealthiness is sensed

# H-Series

## Electronic Timers

### Features

- Din sized enclosure for Panel / Flush mounting having front protective cover for safety.
- Timer and base available for Track (Din rail) / Screw mounting (except H3D1)
- Large transparent knob with lock is provided for precise time setting and protect from unintentional change of time setting.
- LED indication for timing in progress.

**H1DA-X:-** • Accepts voltage from 12V AC / DC to 240V AC / 220V DC as signal between command contacts for timing initiation.

**H1D1-X, H3D1:-** • Multifunction - On-Delay / Interval / Equal Cyclic-On / Equal Cyclic-Off programmable.

**Dimensions:** Over-all: 48 X 48 X 94mm (W x H x D) • Cut-out: 46 X 46mm (W x H)



**Applications:** Textile machines, Vending machines and many more...

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output	CSA Approved
<b>Regular</b>					
H3D1	Multifunction (8 terminals)screw type	X-Version*	0.3secs to 60mins	2 c/o Relay	—
H1D1-X (CSA)	Multifunction (11 Pin) plug in type		0.3secs to 60mins		✓
H1DA-X (CSA)	Signal Off-Delay (11 Pin) plug in type		0.6secs to 60mins		✓
H1DT-10 (CSA)	On-Delay (11 Pin) plug in type		1sec to 10secs		✓
H1DT-30 (CSA)			3secs to 30secs		✓
H1DT-60 (CSA)			6secs to 60secs		✓
H4DT-10	On-Delay (8 pin) plug in type		1sec to 10secs		—
H4DT-30			3secs to 30secs		—
H4DT-60			6secs to 60secs		—

\* X-Version:24V AC to 240V AC, 24V DC to 220V DC

# H / C / E-Series

## Digital Timers

### Features

- Din sized enclosure for Panel Mounting. • Digital display for set value and process value.
- Function (programmable) : ON DELAY / INTERVAL / CYCLIC
- Type of start signal (programmable): No START SIGNAL / PULSE / CONTINUOUS
- One of the relay c/o can be configured as INSTANT or DELAYED.
- Program lock is provided for function, relay configuration, type of start signal and range selected.
- RESET cum START facility can be achieved either through front buttons or rear terminals
- Hold / Restart facility during power failure condition.

**Dimensions:** • Over-all: H3PT-MU – 48 x 48 x 115mm, C3PT-MU, CD6 - 72 x 72 x 128mm, E3PT-MU – 96 x 96 x 117mm (W x H X D)  
• Cut out: H3PT-MU – 46 x 46, C3PT-MU, CD-6 - 69 x 69mm, E3PT-MU – 92 x 92mm (W x H)



**Applications:** • Injection moulding machine panels, Granite processing machines, Packaging / Printing machines, Hot stamping machines etc..

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output
<b>Regular</b>				
H3PT-MU	Multifunction Up-counting	85V to 270V AC / DC	0.1secs to 99hrs 59mins	1 c/o Instant, 1 c/o Delayed or 2 c/o Delayed
C3PT-MU				1 c/o Instant, 1 c/o Delayed or 2 c/o Delayed
E3PT-MU				1 c/o Instant, 2 c/o Delayed or 3 c/o Delayed
<b>Optional</b>				
H3PT-MU	Multifunction Up-counting	12V DC / 24V DC	0.1secs to 99hrs 59mins	1 c/o Instant, 1 c/o Delayed or 2 c/o Delayed
CD-6	On-Delay with Instant contact	85V to 270V AC / DC	1sec to 999mins	1 c/o Instant, 1 c/o Delayed

### Features

- State of art micro control design
- Hold / Restart feature is available during power failure,
- Over voltage protection
- 7 segment display indication for channel and timing operation
- Suitable for screw mounting
- These units come with user-friendly programming for On/ Off time selection independently.
- Facility is also provided to copy the first channel's On and Off time to all channels
- Multiple units can be cascading to obtain more channels
- Time Inhibit - user can pause time with relay status remaining in current status (except ST6-M2, ST6-M2 (IP))
- Unit can be configured to have single cycle operation or repeat cycle operation
- Terminals for potential free pulse signal are available for timing initiation



### ST6-M2, ST6-M2 (IP)

- Relay outputs are available with LEDs for time in progress, timer On and timer ready

**Dimensions:** Over-all: **ST6-M1 / ST6-M2 / ST10-M2 / ST10-M1:** 200 x 130 x 45mm (W x H x D),  
**ST10-M1 (IP) / ST10-M2 (IP) / ST6-M1 (IP) / ST6-M2 (IP):** 291 x 214 x 82mm (W x H x D).

**Applications:** Bag Filter systems, Dust pollution systems, Air handling systems, MCC panels, Pneumatic Conveyors, Process Industries etc...

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output
<b>Regular</b>				
ST6-M1	Sequential Switching 6 channels	85V to 270V AC /DC	0.1sec to 99hrs 59mins	1 c/o NO Relay for each channel
ST6-M1 (IP)	Sequential Switching 6 channels with IP66 enclosure			
ST10-M1	Sequential Switching 10 channels			
ST10-M1 (IP)	Sequential Switching 10 channels with IP66 enclosure		0.01sec to 99hrs 59mins	Triac o/p for each channel**
ST10-M2	Sequential Switching 10 channels			
ST10-M2 (IP)	Sequential Switching 10 channels with IP66 enclosure			
<b>Optional</b>				
ST6-M1	Sequential Switching 6 channels	24V DC	0.1sec to 99hrs 59mins	1 c/o NO Relay for each channel
ST6-M1 (IP)	Sequential Switching 6 channels with IP66 enclosure			
ST10-M1	Sequential Switching 10 channels			
ST10-M1 (IP)	Sequential Switching 10 channels with IP66 enclosure			
ST6-M2	Sequential Switching 6 channels,	85V to 270V AC / DC		1 c/o NO Relay for each channel. 1 c/o NO Relay each for timer ready, time in progress and timer On
ST6-M2 (IP)	Sequential Switching 6 channels with IP66 enclosure			

\*\* Suitable for 240V AC loads only

# S-Series

## Sequential Timers

### Features

- State of art micro control design
- Hold / Restart feature is available during power failure

#### ST15-M2, ST15-M2 (IP)

- 7 segment display indication for channel and timing operation
- Suitable for screw mounting
- User friendly programming with copy facility to program On / Off time selection independently.
- Only repeat cycle operation is possible.
- Potential free (Zero volts) continuous start signal and continuous signal from differential pressure switch is mandatory for operating the timer.

#### ST4-M1

- Analog Sequential Timer with Track (Din rail) mounting
- Time range and time selection is common for all channels On / Off time respectively.
- Only repeat cycle operation is possible.



**Dimensions:** Over-all: **ST15-M2** : 200 x 130 x 45mm (W x H x D), **ST4-M1**: 110 x 86 x 68mm (W x H x D), **ST15-M2 (IP)**:- 291 x 214 x 82mm (W x H x D).

**Applications:** Bag Filter systems, Dust pollution systems, Air handling systems, MCC panels, Pneumatic conveyors, Process industries etc...

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output
<b>Regular</b>				
ST-15M2	Sequential Switching 15 channels	85V to 270V AC / DC	0.01sec to 99hrs 59mins	Triac o/p for each channel**
ST-15M2 (IP)	Sequential Switching 15 channels with IP66 enclosure			
ST-4M1	Sequential Switching 4 channels	240V AC	0.1sec to 1hr	1 c/o NO Relay for each channel

\*\* Suitable for 240V AC loads only

# S-Series

## Combination Timers

### Features

- State of art micro control design with screw mounting
- Hold / Restart during power failure, features are available.
- Unit can be configured to have single cycle operation or repeat cycle operation
- Time Inhibit - user can pause time with relay status remaining in current status
- Each relay can be operated 8 times in a cycle. Hence 8 relays X 8 combinations (switching) = 64programs
- 7 segment display indication for channel, combination and timing operation
- User friendly programming for DELAY / ON time selection independently.
- Erasing of entire program is possible by shorting RESET terminals.
- Terminals for potential free pulse signal are available for timing initiation.



**Dimensions:** Over-all: **S1D-C8M3** : 200 x 130 x 45mm (W x H x D)

**Applications:** Air dryers, Nitrogen plants, Process industries etc...

### Ordering Information

Model	Function	Source Voltage	Time Selection	Output
<b>Regular</b>				
S1D-C8M3	Combination Switching 8 channels	85V to 270V AC / DC	1sec to 99hrs 59mins	1 c/o NO Relay for each channel
<b>Optional</b>				
S1D-C8M3	Combination Switching 8 channels	24V DC / 12 V DC	1sec to 99hrs 59mins	1 c/o NO Relay for each channel

# DT-Series

Digital Non-Contact Tachometer

## Features

- Microcontroller based design with world class Indian software.
- Non-Contact sensing through reflected light beam on reflective sticker.
- Input sensing indication through LED.
- Memory facility to retain measured value. portable, light weight, strong and elegant ABS enclosure.
- Accuracy:  $\pm 1\text{RPM}$  till 5000RPM and above 5000RPM it will be  $\pm 0.05\%$  of the reading
- Resolution: 0.1RPM till 5999RPM and 1RPM from 6000RPM onwards
- Calibration certificate provided along with tachometer - Traceable to National and International Standard.

**Dimensions:** Over-all: 72 x 170 x 38mm (W x H x D)



**Applications:** Motors, Pumps, Generators, Engines and many more

## Ordering Information

Model	Function	Source Voltage	Range
<b>Regular</b>			
DT2001B	Digital Hand Held Non Contact Tachometer	6V DC (4 x 1.5V, AA size battery)	0.1 to 99,999 RPM (with one reflecting mark)

# C / H-Series

Pre-Set Counters

## Features

- Din sized enclosure for panel mounting.
- Wide voltage range
- Front / Rear reset facility provided.
- Hold / Restart options (selectable) during power failure.
- Input signal from proximity switch (NPN/PNP type) or potential free (zero volt) signal from limit switch, relay o/p etc

### CT-5

- Digital, single window 5 digit 7 segment red LED display with up counting for process value
- Preset counts can be programmed with the help of thumbwheel switch

### H3CT-5U

- Digital, single window 5 digit 7 segment red LED display with up counting for both process value and set value
- Input sensitivity – programmable (1-100Hz)

**Dimensions:** • Over-all: CT-5: 72 x 72 x 128mm, H3CT-5U : 48 x 48 x 115mm (W x H x D) • Cut-out: CT-5 – 69 x 69mm, H3CT-5U : 46 x 46mm (W x H)



**Application:** Paper board counting, Bag counting, Bottle counting, Relay change over counting, Breaker panels, Stroke counting in granite cutting m/c and many more

## Ordering Information

Model	Function	Source Voltage	Range	Output
<b>Regular</b>				
CT-5	Preset counter (LED Display), 5 digits	85V AC to 270V AC / DC	1 to 99999counts	1 c/o, 5A Relay
H3CT-5U	Preset counter (LED Display), 5 digits	85V AC to 270V AC / DC	1 to 99999counts	1 c/o, 5A Relay



# TS-Series

## Digital Time Switches

### Features

- Battery operated (2nos x 1.5V DC, AA size) Real Time Clock in 24 hour format.
- Switches On and Off 4 times in a day with respect to real time
- LED indication for relay status, LCD display for real time clock.
- User friendly programming with manual over ride facility.
- Clock hours and Clock minute buttons can be enabled by shorting terminals to program RTC



#### TS-203

- Suitable for Panel / Flush mounting

#### TS-203B

- Program hour and program minute buttons can be enabled by shorting terminals to program the load's START time and DURATION for which the load should be On
- Suitable for Din rail mounting.

**Dimensions:** - Overall: TS-203 - 72 X 72 X 84mm; TS-203B - 130 X 86 X 65mm (W x H X D) • Cut-out: TS-203 – 69 x 69mm (W x H)

**Applications:** Street lighting, Advertising boards, DG sets, Pumps, Compressors, Exhaust fans, ATM air conditioners and many more...

### Ordering Information

Model	Function	Source Voltage	Output
<b>Regular</b>			
TS-203	4 switching per day as per real time	240V AC	1 c/o, 16A Relay
TS-203B		240V AC	1 c/o, 16A Relay
<b>Optional</b>			
TS-203A	4 switching per day as per real time	240V AC	1 c/o, 20A Relay
TS-203B		12V DC / 24V DC / 110V AC	1 c/o, 16A Relay
TS-203		12V DC / 24V DC / 110V AC	1 c/o, 16A Relay

# MS-Series

## Switch Mode Power Supplies

### Features

- Compact, light weight and SMPS design
- Versatile and easy snap-on mounting on Din Rail
- Very low ripple and noise
- Regulated and adjusted output
- Protection against over voltage, short circuit and over load



**Dimensions:** Over-all: MS-01 - 45 x 75 x 116mm, MS-02 - 110 x 86 x 71mm, MS-03 - 150 x 86 x 91mm, MS-04 - 172 x 150 x 78mm, MS-05 - 22.5 x 75 x 97mm (W x H x D)

**Applications:** PLC, DC panels, DC solenoids, DC relay boards, Battery charging panels and many moress

### Ordering Information

Model	Function	Source Voltage	Output
<b>Regular</b>			
MS-01	Switch Mode Power Supply	192V - 264V AC	24V DC, 1A, 24W / 15V DC, 1A, 15W
MS-02		170V - 300V AC	24V DC, 2.1A, 50W / 15V DC, 2.1A, 31.5W / 12V DC, 4.2A, 50W / 5V DC, 6.0A, 30W
MS-03		170V - 300V AC	24V DC, 5A, 120W
MS-05		170V - 300V AC	5V DC, 1A, 5W
<b>Optional</b>			
MS-04	Switch Mode Power Supply	190V - 270V AC	24V DC, 10A, 240W

# Unik-Temp Series

Universal Temperature Controllers

## Features

- 3 1/2 digit, 7 segment LED temperature display
- Wide voltage range (85-270V AC / DC)
- Universal input (J / K / PT-100)
- LED indication for sensor, relay and function\*
- Sensor, function\*, Offset\*\*, Hysteresis parameters can be locked (by opening the short link of designated terminals) against unauthorized tampering.



### H3TX-Ua / TX7-Ua / EX9-Ua / H3TX-Ub

- Dual function (On-Off or Self-Tune)
- Single set point with relay output
- Single window display for both set and process values
- Temperature offset calibration user settable

### H3TX-Ub

- 3 Digit, 7segment display for displaying temperature with height 0.4"

### H3TX-2U / TX7-2U / EX9-2U

- Dual function (On-Off or Self-Tune) • Single set point with relay output • Dual window display for set and process values

### H3TX-2H-U / TX7-2H-U / EX9-2H-U

- Single function (On-Off) • Dual set point with 2 relay output for each set point
- Dual window separate display for set and process values
- Both relays change over to NO at room temperature and each reverts back to NC at respective set points. It once again changes over to NO when temperature falls by the respective Set point minus hysteresis.

### H3TX-2A-U / TX7-2A-U / EX9-2A-U

- Single function (On-Off) • Dual set point with 2 relay output for each set point
- Dual window separate display for set and process values
- First relay changes over to NO at room temperature and reverts back to NC at 1st set point. It once again changes over to NO when temperature falls by 1st Set point minus 1st hysteresis. 2nd relay changes to NO at 2nd set point and reverts back to NC at 2nd set point minus 2nd Hysteresis.

\*Function applicable only for H3TX-Ua, TX7-Ua, EX9-Ua, H3TX-2U, TX7-2U, EX9-2U and H3TX-Ub \*\* Offset applicable only for H3TX-Ua, TX7-Ua, EX9-Ua, H3TX-Ub

- Dimensions:**
- Overall: H3-TX Models - 48 x 48 x 115mm, TX7 Models - 72 X 72 X 128mm; EX9 Models - 96 x 96 x 117mm (W x H X D)
  - Cut-out: H3-TX Models - 46 x 46mm, TX7 Models - 69 x 69mm , EX9 Models - 92 x 92mm (W x H)

**Applications:** Furnace, Heat treatment equipment, Ovens, Boilers, Plastic and Rubber machinery and many more

## Ordering Information

Model	Function	Source Voltage	Sensor	Range	Output	
<b>Regular</b>						
H3TX-Ua TX7-Ua EX9-Ua	Single display with single set point (On-Off / Self-Tune Function)	85V to 270V AC / DC	J K	0°C - 600 °C 0°C - 1200°C	1 relay 1 c/o, 5A	
H3TX-2U TX7-2U EX9-2U	Dual display with single set point (On-Off / Self-Tune Function)		PT-100 (Self-Tune) PT-100 (On-Off)	0°C - 300°C -100°C - 300°C		
H3TX-2H-U TX7-2H-U EX9-2H-U	Dual display with two set points (On-Off - Heater type Function)		J K	0°C - 600 °C 0°C - 1200°C		2 relay 1 c/o, 5A
H3TX-2A-U TX7-2A-U EX9-2A-U	Dual display with two set points (On-Off - Alarm type Function)		PT-100 (On-Off)	0°C - 300°C		
<b>Optional</b>						
H3TX-Ub	Single display with single set point (On-Off / Self-Tune Function)		85V to 270V AC / DC	J K PT-100 (Self-Tune) PT-100 (On-Off)	0°C - 600 °C 0°C - 999°C 0°C - 300°C -100°C - 300°C	1 relay 1 c/o, 5A

# M2 - Series

## Programmable Annunciators

### Features

- Sleek, light weight, ABS enclosure
- Super bright, Red color SMD, LED for fault indications
- Test / Mute / Acknowledge / Reset (buttons in front and terminals at rear) are available.
- Multiple units terminals can be connected in parallel to achieve more windows
- Each window can be programmed for fault inputs as NO or NC and output as alarm or trip
- Above program can be locked by removing the short link across specified terminals
- Available in 2, 4, 6 and 8 windows respectively
- Available in wide auxiliary voltage ranges of 18V to 90V AC/DC and 85V to 270V AC/DC
- Window size:
  - M2-2** – 66 x 58mm,
  - M2-4** – 66 x 27.5mm,
  - M2-6** – Top 2 windows – 66 x 27.5mm, Bottom 4 windows – 31.5 x 27.5mm,
  - M2-8** – 31.5 x 27.5mm (W x H)



### Dimensions:

- Overall: M2-2, M2-4, M2-6, M2-8: 74 x 143 x 78mm, M2-1: 48 x 48 x 48mm (W x H x D)
- Cut-out: M2-2, M2-4, M2-6, M2-8: 69 x 141 x 75mm, M2-1: 46 x 46mm (W x H)

**Applications:** C & R panels, Transformer panels, DG set panels etc.

### Ordering Information

Model	No. of Windows	Function	Source Voltage	Output	Input
<b>Regular</b>					
M2-2	2 windows	Programmable fault annunciation	85V to 270V AC / DC, (or) 18V to 90V AC / DC	2 relays 1 c/o (C-NO), (trip / Alarm)	2 potential free (Zero Volt) fault input
M2-4	4 windows				4 potential free (Zero Volts) fault inputs
M2-6	6 windows				6 potential free (Zero Volts) fault inputs
M2-8	8 windows				8 potential free (Zero Volts) fault inputs
<b>Optional</b>					
M2-1	1 windows	Programmable fault annunciation	110VAC	1 relay 1 c/o (NC-C-NO)	1 fault input (12V AC / DC - 240VAC / 220V DC)
M2-4	4 windows		24V DC	2 relays 1 c/o (C-NO), (trip / Alarm)	4 potential free (Zero Volts) fault inputs
M2-4Y	4 windows		220V DC	2 relays 1 c/o (C-NO), (trip / Alarm)	4 potential free (Zero Volts) fault inputs

# M2 - Series

## Programmable Annunciators (Advanced)

### Features

- Sleek, light weight, ABS enclosure
- Super bright, Red color SMD, LED for fault indications
- Test / Mute / Acknowledge / Reset (buttons in front and terminals at rear) are available.
- Multiple units terminals can be connected in parallel to achieve more windows
- Each window can be programmed for fault inputs as NO or NC and output as alarm or trip
- Above program can be locked by removing the short link across specified terminals

#### Advanced Models: M2-12 / M2-16 / M2-24

- Available in 12, 16 and 24 windows respectively
- Available in wide auxiliary voltage range of 85V to 270V AC / DC
- Sequence of operation is user selectable for – Manual reset, Auto reset, Manual reset + ring back or First in First Out (FIFO)
- Terminals are available for stand-by supply (12V DC)
- AC fail relay and Hooter relay is available for relay outputs during auxiliary supply failure.
- Window size: M2-12 – 63 x 28mm, M2-16 – 28 x 28mm, M2-24 – 28 x 28mm (W x H)

#### Advanced Models with additional features: M2-12R / M2-16R / M2-24R

- RS485 output signals are available for displaying fault and healthy status of each window.
- Repeat relay cards having 8 (C-NO) outputs can be supplied on order to connect the main unit to 1, 2 or 3 relay cards (as required) in a daisy chain arrangement and achieve one output for each window.

#### Advanced Models with additional features: M2-12RI / M2-16RI / M2-24RI

- To communicate field fault inputs with the unit via RS485 and annunciate accordingly

**Dimensions:** • Overall: M2-12, M2-16, M2-24: 291 x 187 x 79mm (W x H x D), Repeat relay card: 195 x 90 x 59mm (W x H x D)  
• Cut-out: M2-12, M2-16, M2-24: 288 x 185mm

**Applications:** C & R panels, Transformer panels, DG set panels, Fire annunciation panels and Instrumentation panels etc...

### Ordering Information

Model	No. of Windows	Function	Source Voltage	Output	Input
<b>Regular</b>					
M2-12	12 windows	Programmable fault annunciation	85V to 270V AC / DC	2 relays 1 c/o (NC-C-NO), (trip / Alarm), 2 relays 1c/o (C-NO) (Hooter, AC Fail)	12 potential free (Zero Volts) fault inputs
M2-16	16 windows				16 potential free (Zero Volts) fault inputs
M2-24	24 windows				24 potential free (Zero Volts) fault inputs
<b>Optional</b>					
M2-12	12 windows	Programmable fault annunciation	24V DC	2 relays 1 c/o (NC-C-NO), (trip / Alarm), 2 relays 1c/o (C-NO) (Hooter, AC Fail)	12 potential free (Zero Volts) fault inputs
M2-16	16 windows				16 potential free (Zero Volts) fault inputs
M2-24	24 windows				24 potential free (Zero Volts) fault inputs
M2-12R	12 windows		12 potential free (Zero Volts) fault inputs		
M2-16R	16 windows		16 potential free (Zero Volts) fault inputs		
M2-24R	24 windows		24 potential free (Zero Volts) fault inputs		
M2-12RI	12 windows		85V to 270V AC / DC		12 potential free (Zero Volts) fault inputs (these inputs can also be accessed via RS485)
M2-16RI	16 windows				16 potential free (Zero Volts) fault inputs (these inputs can also be accessed via RS485)
M2-24RI	24 windows				24 potential free (Zero Volts) fault inputs (these inputs can also be accessed via RS485)



RS485 Mod-bus communication port available

# B-Series

## Monitoring Devices

### Features

- Din sized enclosure with Auto / Manual mode
- Front button and external potential free (zero volt / no voltage) terminal contacts for resetting in manual mode.
- LED indication for power, relay status and fault condition.
- Trip delay time and limits of all parameters are factory set
- Monitors phase sequence, failure, unbalance and under voltage in a 3 phase 3 wire system and trips under such conditions



**Dimensions:** Overall: PMD-01 – 45 x 75 x 116mm (W x H x D)

**Applications:** Motors, pumps, generators and Compressor panels etc...

### Ordering Information

Model	Function	Input Voltage	Output
<b>Regular</b>			
PMD - 01	Phase Monitoring Device	440V AC 3phase, 3 wire, Self powered	1 c/o, 5A

# G / E-Series

## Digital Monitoring Devices

### Features

- Din sized enclosure • Auto / Manual switch
- Front button and external potential free (zero volt / no voltage) terminal contacts for resetting in manual mode.
- LED indication for relay status
- Window displays the type of fault that has occurred during unhealthy condition
- Trip delay time and limits for each parameter can be set digitally
- All programs can be locked by removing short link across specified terminals
- Unwanted parameters can be by-passed as per user's choice.
- Relay can be configured to have NO or NC status during healthy condition



#### PVMD, PVMD-G

- Monitors and trips the circuit after the set trip delay time when ever power unhealthiness (phase failure, phase sequence, phase unbalance under voltage or over voltage) occurs.
- Displays all the 3 phase voltages (Line to Line) in a scrolling fashion during healthy condition.
- PVMD – Panel / Flush mounting, PVMD-G Din Rail mounting

#### PVIMD, PVIMD-G

- Monitors and trips the circuit after the set trip delay time when ever power unhealthiness (phase failure, phase sequence, phase unbalance under voltage, over voltage, under current or over current)
- Displays all the 3 phase voltages (Line to Line) and 3 phase currents in a scrolling fashion during healthy condition.
- User can program nominal current. Under current and over current limits can be set in percentage with reference to nominal current.
- User can set the in-rush time depending on their system during which over current feature will be in disabled condition
- Terminals to connect all the 3 phase CTs are provided.
- CT primary can be programmed up to 500 in steps of 5. CT secondary will be factory set for 5.
- PVIMD – Panel / Flush mounting, PVIMD-G - Din Rail mounting

**Dimensions:** Overall: PVMD / PVIMD: 96 x 96 x 117mm, PVMD-G / PVIMD-G: 76 x 78 x 115mm (W x H x D) • Cut-out: PVMD / PVIMD: 92 x 92mm (W x H)

**Applications:** Any 3 phase 4wire systems like motors, pumps, generators / distribution / MCC panels, air conditioners, elevators, cranes, escalators.

### Ordering Information

Model	Function	Input Voltage	Output
<b>Regular</b>			
PVMD	Phase Voltage Monitoring Device	415V AC 3 phase, 4 wire, Self powered	1 c/o, 10A
PVMD - G	Phase Voltage Monitoring Device		
PVIMD	Phase Voltage Current Monitoring Device		
PVIMD - G	Phase Voltage Current Monitoring Device		

# G / E-Series

Motor Protection Devices

## Features

- Din sized enclosure
- Auto / Manual mode
- Front button resetting facility is available in manual mode.
- LED indication for relay status
- Window displays the type of fault that has occurred during unhealthy condition
- Trip delay time and limits for each parameter can be set digitally
- Unwanted parameters can be by-passed as per User's choice.
- Relay can be configured to have NO or NC status during healthy condition
- Monitors and trips the circuit after the set trip delay time when ever power unhealthiness (phase failure, phase sequence, phase unbalance under voltage, over voltage, under frequency, over frequency or earth leakage current) occurs.
- User can set the in-rush time depending on his system during which over current feature will be in disabled condition
- Terminals to connect all the 3 phase CTs are provided.
- Displays all the 3 phase voltages (Line to Line) 3 phase currents, average frequency in a scrolling fashion during healthy condition.
- User can program earth leakage current limits.
- Terminals to connect all the 3 phase CTs and CBCT are provided.
- CT primary can be programmed up to 2500 in steps of 5. CT secondary will be factory set for 5.
- MPR-E1- Panel / Flush mounting, MPR-G1- Din rail mounting



**Dimensions:** • Overall: MPR-E1 – 96 x 96 x 117mm, MPR-G1 – 76 x 78 x 115mm (W x H x D) • Cut-out: MPR-E1 – 92 x 92mm (W x H)

**Applications:** Any 3 phase 4 wire systems like motors, pumps, generators / distribution / MCC panels, air conditioners, elevators, cranes, escalators and many more

## Ordering Information

Model	Function	Input Voltage	Output
<b>Regular</b>			
MPR-E1	Motor Protection Relay	415V AC 3phase, 4 wire, Self powered	1 c/o, 10A
MPR-G1	Motor Protection Relay	415V AC 3phase, 4 wire, Self powered	1 c/o, 10A

# HM-Series

Hour Meter

## Features

- 5 Digit LCD Display
- Start signal- continuous, 12V AC / DC to 240V AC / 220V DC
- Reset terminals available at rear for resetting

**Dimensions:** • Over-all: 72 x 72 x 84mm (W x H x D) • Cut-out: 69 x 69mm (W x H)



**Applications:** Generators and many more

## Ordering Information

Model	Function	Source Voltage	Time Range
<b>Regular</b>			
HM-600	Digital Hour Meter	3V DC (2 x 1.5V, AA size battery)	0 Hr to 99,999 Hrs

# EMS-Series

## Basic Meters

### Features

- High brightness red LED display
- Program can be locked by removing short link connected across specified terminals

**EMS-11:** • Measurement of current parameters (L-N) • CT primary & secondary programmable

**EMS-12:** • Measurement of voltage parameters (L-N), (L-L) • PT primary & secondary programmable

**EMS-13:** • Measurement of frequency parameter. (Average)

**EMS-02:** • Measurement of basic parameters. (Current (L-N), Voltage (L-N), (L-L), frequency (avg) and Power factor (Total)  
• CT ratio programmable, RS485 Mod-bus RTU protocol available

**EMS-18:** • Measurement of basic parameters. (Current (L-N), Voltage (L-N), (L-L) and frequency (average)



**Dimensions:** • Overall: 96 x 96 x 117mm (W x H x D) • \*Cutout: 92 x 92mm (W x H)

**Applications:** Distribution panels, HT / LT panels, DG panels etc...

### Ordering Information

Model	Function	Source Voltage	Parameter
<b>Regular</b>			
EMS-11	Ammeter	85V to 270V AC / DC	A(R, Y, B)
EMS-12	Voltmeter		V (R, Y, B), V(RY, YB, BR)
EMS-13	Frequency Meter		Hz. (Avg)
EMS-18	VAF Meter		V(R, Y, B), V(RY, YB, BR), A(R,Y, B), Hz
<b>Optional</b>			
EMS-02	VAF / PF Meter	85V to 270V AC / DC	V(R, Y, B), V(RY, YB, BR), A(R,Y, B), Hz, PF(T)

\*EMS-11, EMS - 12 and EMS 13 will soon be available with smaller depth (84mm)

# EMS-Series

## Maximum Demand Meters

### Features

- Measurement of basic, power, energy and demand parameters.
- High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value)
- Automatic CT reverse correction for energy and demand. • Programmable demand techniques block / sliding window.
- Programmable demand parameters Apparent / Active power. • Programmable demand range Kilo / Mega.
- Programmable Alarm / hysteresis settings. • Programmable RTC setting to match EB meter's clock

### EMS-15C

- Max. Demand Controller = Max. demand Indicator + Relay module (4 relay) (RR-4).
- 4 control outputs (C-NO) for alarm and trip settings.



**Dimensions:** • Overall: EMS-15, EMS-15C 96 x 96 x 117mm, RR-4:- 195 x 90 x 59mm (W x H x D) • Cutout: 92 x 92mm (W x H)

**Applications:** In-comer distribution panels

### Ordering Information

Model	Function	Source Voltage	Parameter
<b>Regular</b>			
EMS -15	Maximum Demand Indicator	170V to 270V AC / DC	Page 1 (Basic) V(R, Y, B), V(RY, YB, BR), A(R,Y, B), Hz, RTC Time
			Page 2 (Power) PF(R, Y, B), PF(T), W(R, Y, B), WT, VAr(R, Y, B),VAr(T), VA(R, Y, B), VA(T),
EMS -15C	Maximum Demand Controller		Page 3 (Integral) KWh, KVArh-C, KVArh-I, KVAh, LH
			Page 4 (Demand) Md (Fixed/Sliding), Md Time (Fixed/Sliding),Wd (Fixed/Sliding), Rd (Fixed), Elapsed Time (Fixed/Sliding)

# EMS-Series

## Multi-Function Meters

### Features

- On site programmable PT (Primary & Secondary) / CT (Primary & Secondary) ratio
- RS 485 – RS232 (Mod-bus RTU Protocol)
- Protection from dust and water as per IP 51.
- Program setting protected by 4 digits password
- Accuracy Class: 1.0 / 0.5.
- Measurement of basic, power, energy (total, import, export), load on hours and old energies, old load on hours parameters.
- High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value)
- Optional: THD voltage and current in percentage



**Dimensions:** • Overall: 96 x 96 x 117mm (W x H x D) • Cutout: 92 x 92mm (W x H)

**Applications:** Sub metering panels, Distribution panels, HT / LT panels, DG panels and RMU Panels etc.

### Ordering Information

Model	Function	Source Voltage	Parameter	
<b>Regular</b>				
EMS-01	Multi Function Meter	85V to 270 V AC/DC	Page 1(Basic)	V $\phi$ , Y, B), V(RY, YB, BR), A(R,Y,B), Hz, PF(R, Y, B), PF(T), Phase angle (R, Y, B), RPM, W(R, Y, B), W(T), VAr(R, Y, B), VAr(T), VA(R, Y, B), VA(T)
			Page 2(Total)	KWhT, KVArhCT, KVArhIT, KVAhT, LHT.
			Page 3(Import)	KWhI, KVArhCI, KVArhII, KVAhI, LHI.
			Page 4(Export)	KWhE, KVArhCE, KVArhIE, KVAhE, LHE.
			Page 5(Old Total)	KWhT, KVArhCT, KVArhIT, KVAhT, LHT.
			Page 6(Old Import)	KWhI, KVArhCI, KVArhII, KVAhI, LHI.
			Page 7(Old Export)	KWhE, KVArhCE, KVArhIE, KVAhE, LHE.
<b>Optional</b>				
EMS-01	Multi Function Meter	24V DC	Page 1(Basic)	V(R, Y, B), V(RY, YB, BR), A(R,Y,B), Hz (Avg), PF(R, Y, B, T), Phase angle (R, Y, B), RPM, W(R, Y, B, T), VAr(R, Y, B, T), VA(R, Y, B, T) A(N)*
			Page 2 (THD)	Voltage (%) (R, Y, B), Ampere (%) (R, Y, B).
			Page 3(Total)	KWhT, KVArhCT, KVArhIT, KVAhT, LHT.
			Page 4(Import)	KWhI, KVArhCI, KVArhII, KVAhI, LHI.
			Page 5(Export)	KWhE, KVArhCE, KVArhIE, KVAhE, LHE.
			Page 6(Old Total)	KWhT, KVArhCT, KVArhIT, KVAhT, LHT.
			Page 7(Old Import)	KWhI, KVArhCI, KVArhII, KVAhI, LHI.
			Page 8(Old Export)	KWhE, KVArhCE, KVArhIE, KVAhE, LHE.

\*Neutral current can be measured for unbalanced current loads which are 120° out of phase.



# EMS-Series

## Multi-Function Meters

### Features

- On site programmable PT (Primary & Secondary) / CT (primary & secondary) ratio
- RS 485 – RS232 (Mod-bus RTU Protocol)\*
- Protection from dust and water as per IP 51.
- Program setting protected by 4 digits password\*
- Accuracy Class: 1.0 / 0.5.



### EMS-03, EMS-03A

- Measurement of Active power, Active energy & PF parameters.
- High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value)
- Terminals are provided to take pulse output from the meter (Only for EMS-03P)

### EMS-09, EMS-17

- Measurement of basic, power & energy parameters.
- High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value)

### EMS-17

- Separate registers for all parameters are available for Mains & Generator.

### EMS-10

- Measurement of power & energy parameters. • High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value).
- Terminals are provided to take pulse output from the meter (Only for EMS-10P)

**Dimensions:** • Overall: 96 x 96 x 117mm (W x H x D) • Cutout: 92 x 92mm (W x H)

\*N.A. for EMS-03A

**Applications:** Sub metering panels, Distribution panels, HT / LT panels and DG panels etc.

### Ordering Information

Model	Function	Source Voltage	Parameter
<b>Regular</b>			
EMS-03	KWH Meter	85V to 270V AC / DC	W(T), PF(T), KWh, MWh
EMS-09	Basic / Energy Meter		V(R, Y, B), V(RY, YB, BR), A(R, Y, B), Hz, PF(R, Y, B), PF(T), W(R, Y, B), W(T), KWh, MWh, LH, OKWh, OMWh, OLH
EMS-10	Power / Energy Meter		PF(R, Y, B), PF(T), W(R, Y, B), W(T), VAr(R, Y, B), VAr(T), VA(R, Y, B), VA(T), KWh, KVArh-C, KVArh-I, KVAh, LH, OKWh, OKVArh-C, OKVArh-I, OKVAh, OLH
EMS-17	Dual Source Energy Meter		V(R, Y, B), V(RY, YB, BR), A(R, Y, B), Hz, PF(R, Y, B), PF(T), RPM, Phase angle (R, Y, B), W(R, Y, B), W(T), KWh(M), MWh(M), LH(M), KWh(G), MWh(G), LH(G) All parameters in both registers-Main(M) and generator(G)
<b>Optional</b>			
EMS-03A	KWh meter	85V to 270V AC / DC	KWh (without RS485 communication port)
EMS-03P	KWH Meter with pulse output		W(T), PF(T), KWh, MWh
EMS-10P	Power/ Energy Meter with pulse output		PF(R, Y, B, T), W(R, Y, B, T), VAr(R, Y, B, T), VA(R, Y, B, T), KWh, KVArh-C, KVArh-I, KVAh, LH, OKWh, OKVArh-C, OKVArh-I, OKVAh, OLH

# EMS-Series

## DC Multi-fuction Meters

### Features

- Measurement of voltage, ammeter, power and energy parameters of 3 loads.
- High brightness LED display (alpha numeric (green) for parameter, numeric (red) for value)
- RS485 Mod-bus RTU Communication ports are available.
- Shunt Voltage: 60mV or 70mV programmable, Shunt current: 1-200A programmable



**Dimensions:** • Overall: 96 x 96 x 117mm (W x H x D) • Cutout: 92 x 92mm (W x H)

**Applications:** DC distribution solar panels and Battery panels, DC rectifiers etc.

### Ordering Information

Model	Function	Source Voltage	Input Voltage	Parameter	
SNM-01	DC Energy meter	110V to 240V AC / DC	80V DC to 220V DC	Page 1 (load1)	V <sub>1</sub> , A <sub>1</sub> , KW <sub>1</sub> , KWh <sub>1</sub>
				Page 2 (load 2)	V <sub>2</sub> , A <sub>2</sub> , KW <sub>2</sub> , KWh <sub>2</sub>
				Page 3 (load 3)	V <sub>3</sub> , A <sub>3</sub> , KW <sub>3</sub> , KWh <sub>3</sub>
				Page 4 (Old)	KWh <sub>1</sub> , KWh <sub>2</sub> , KWh <sub>3</sub>
				Page 5 (Communication )	Communication status, Dev Id
SNM-02	DC Energy meter	24V to 48V DC	21V DC to 50V DC	Page 1 (load1)	V <sub>1</sub> , A <sub>1</sub> , KW <sub>1</sub> , KWh <sub>1</sub>
				Page 2 (load 2)	V <sub>2</sub> , A <sub>2</sub> , KW <sub>2</sub> , KWh <sub>2</sub>
				Page 3 (load 3)	V <sub>3</sub> , A <sub>3</sub> , KW <sub>3</sub> , KWh <sub>3</sub>
				Page 4 (Old)	KWh <sub>1</sub> , KWh <sub>2</sub> , KWh <sub>3</sub>
				Page 5 (Communication)	Communication status, Dev Id

# EMS-Series

## Convertor

### Features

- Aux. supply - wide voltage and frequency range.
- Compactable baud rate - 2400, 4800, 9600, 19200.
- Max. no of nodes - 32.
- Max. cable length (RS-232 side) - 15mtrs typical.
- Max. cable length (RS-485 side) - 500mtrs typical.
- Mounting - Din-rail.
- LED indication for power, R<sub>i</sub> and T<sub>i</sub> inputs



**Dimensions:** • Overall: 117 x 86 x 61mm (W x H x D)

**Applications:** Converting RS485 into RS232

### Ordering Information

Model	Function	Source Voltage	Parameter
<b>Regular</b>			
EA232/485	Convertor	85V to 270V AC/DC	Convertor RS485-RS232

# EMS-Series

N-Commune



## Features

- Compatible to MS Windows XP and higher versions
- User friendly programming - easy to install and operate
- Option to scan devices connected in the network

**Screens:** Basic , Energy

**Reports:** • Single Device energy report • Single Device summary report • Periodic consumption energy report of all devices.

**Graph:** Multiple device graph(max. 4 devices) (Bar / Line)

**Applications:** Software stores and analyses of EMS meter data

## Ordering Information

Model	Function
<b>Optional</b>	
N Commune	EAPL Standard Software

# CP Series

Ready to Use Panels

**Maximum Demand Control Panel**



**Model : CP-01**

**Lighting Control Panel**



**Model : CP-02**

**Pump Control Panel**



**Model : CP-03**

**Annunciation Control Panel**



**Model : CP-04**

## Features

- Ready to use panels
- Strong MS enclosure
- Locking facility
- Designed for high power application

**Dimensions:** • Overall: CP-02: 350 x 330 x 220mm, CP-01, CP-03, CP04: 340 x 340 x 255mm (W x H x D)

**Applications:** Ready to use panels

## Ordering Information

Model	Function	Source Voltage	Output
CP-01	Maximum Demand Control Panel	3 Phase, 4 Wire, 415V AC	6A, 240V AC, Relay output
CP-02	Lighting Control Panel	3 Phase, 4 Wire, 415V AC	32A, 240V AC, Relay output
CP-03	Pump Control Panel	3 Phase, 4 Wire, 415V AC	32A, 240V AC, Relay output
CP-04	Annunciation Control Panel	240V AC, +10% -20%	5A@250V AC, Hooter output & Buzzer output

**Note**

1. Design & Specification are subject to change without notice
2. User is recommended to confirm the suitability of EAPL product range for intended application
3. Customer should take safety precaution with regards to high voltage/current etc..  
(i.e , should not apply more than the specified limits)
4. EAPL is not responsible for consequential damage out of use of its products



कार्मणो वा मोक्षणि

A 5255  ISO 9001-2008

**ELECTRONIC AUTOMATION (P) LTD**

# 20, K.H.B Industrial Area, Yelahanka, Bangalore-560 106

Tel.: +91- 80 - 4280 2345 / 2856 7561 / 2856 7562

Fax: 080 - 4280 2346. E-mail: [info@eaplindiamail.com](mailto:info@eaplindiamail.com)

Customer support: Tel.: +91 - 80 - 4280 2323

E-mail: [customersupport@eaplindiamail.com](mailto:customersupport@eaplindiamail.com)

[www.eaplindia.com](http://www.eaplindia.com)