

THE REAL EARTHING SOLUTIONS SINCE 1996

ISO 9001:2015 CERTIFIED



# Newmate

ELECTRO SYSTEMS



Promoter of  
**FRANKSHIELD**  
Lightning Arrestors

Channel Partner of  
  
**CITEL**  
FRANCE

Associated Service Partner of  
  
Tsherezert Instruments  
FRANCE

  
USA

LIGHTNING ARRESTORS | SURGE PROTECTION DEVICES  
EARTHING SOLUTIONS

STANDARDS:- BS EN/IEC 62305, IS 2309, IS 3043, NFC17-102-2011  
IEC/EN 61643-11, UL 1449 ED.4, IEC 61643-21, UL497A.



[www.lightningarrestor.org](http://www.lightningarrestor.org) | [www.newmate.in](http://www.newmate.in)



[newmate1@gmail.com](mailto:newmate1@gmail.com)

# COMPANY

## ►►► About Us

**Newmate Electro Systems** is an ISO 9001:2015 certified company was established in the year 1996. We are the Manufacturers and suppliers of superior quality external lightning protection systems/Lightning Arrestors, Surge Protection Devices (SPD) and all type Earthing Solutions for various sectors like Telecommunication, Electricity Generating Stations-power houses, Factories/Industries, Commercial/Institutional buildings, Railways, Airports, Real Estate Sectors Etc.

The principle of the lightning rod was first detailed by Benjamin Franklin in Pennsylvania in 1749. lightning protection system is designed to protect a structure from damage due to lightning strikes by intercepting such strikes and safely passing their extremely high currents to ground.

Our lightning protection system includes copper made lightning strike receiver as vertical air terminal (Conventional/Franklin Rod and ESE-Early Streamer Emission), copper down conductors, earth termination network etc. It consists of copper earth plates, winded earth terminator, gel filled earth terminating cylinder and maintenance free chemical earthing compounds designed to provide a low impedance path to the ground.

We have successfully completed more than 4000 projects in government, public and private sectors in south India. We value good relationships through successful solutions and prompt customer service. Our commitment and our mission are to provide excellent service, the best and effective protection available through individualized lightning and surge protection solutions. The core of our success lies in the excellence of our products and the quality of our customer service. Work with us and together let us create a safe future for the world.

We are the authorized channel partner of M/S CITELE -France and we have also dealings with internal surge protection devices of M/S RTEK-USA. We are assuring protection for AC/DC/Photovoltaic/Data/Telecommunication/Computer Network Systems from our wide range of surge protection devices.

Newmate Electro Systems is the associated service partner of - Ambient FranceTech of M/S Tsherezert Instruments, France and promoter of Frankshield external lightning protection systems in south India region.

## ►►► Choose Us



**Site study by the project engineers.**



**Analysed and suitable system Application.**



**Highly Durable & Cost Effective.**



**Installation carried out by our qualified project engineers & technicians**



**Quality without any compromise..**

## ▶▶▶ We Offer

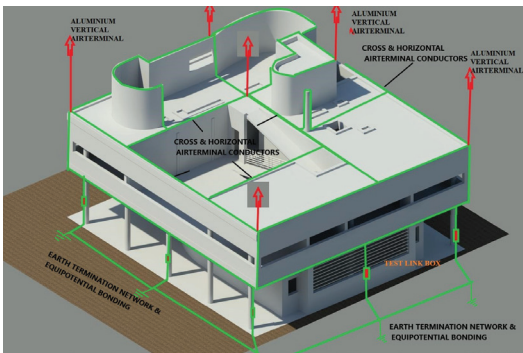
- ⦿ 100% Safety from lightning.
- ⦿ 20 year replacement guarantee for lightning strike receiver
- ⦿ 20 Year Annual Service Warranty for lightning protecting system.
- ⦿ Need no fuel & 24 hours Automatic Protection.
- ⦿ Effective and International Modern Technology Spikes.
- ⦿ Negative and Positive ionizing Technology.
- ⦿ Effective earth terminating systems.
- ⦿ Effective earth value maintaining electro fill mixture compounds.
- ⦿ Side flash protection.
- ⦿ Specially purified and easily conducting copper down conductors.
- ⦿ Service once in a year by our technician.
- ⦿ Specially designed models for houses, institutional building, commercial & manufacturing units.

## ▶▶▶ Types Of External Lightning Protection Systems

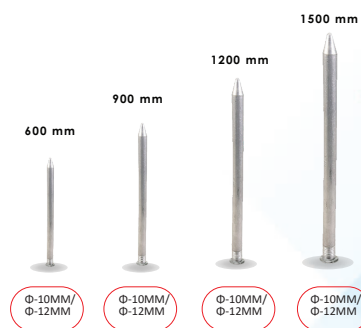
### Conventional Lightning Protection Systems



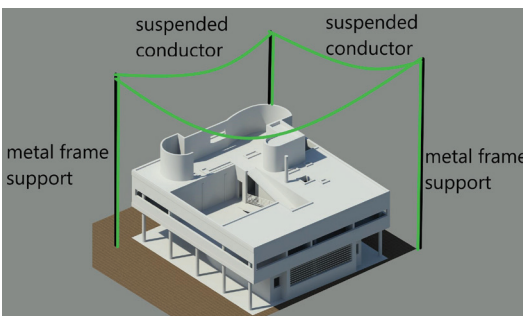
#### System 1: Combined Vertical-Horizontal-Mesh System (With Air terminal )



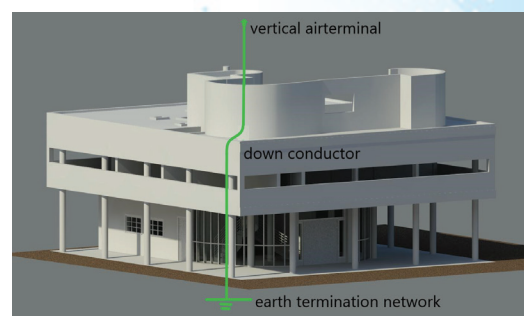
#### ALUMINIUM VERTICAL AIRTERMINAL



#### System 2: Catenary/Suspended Wire System



#### System 3: Vertical Airterminal System



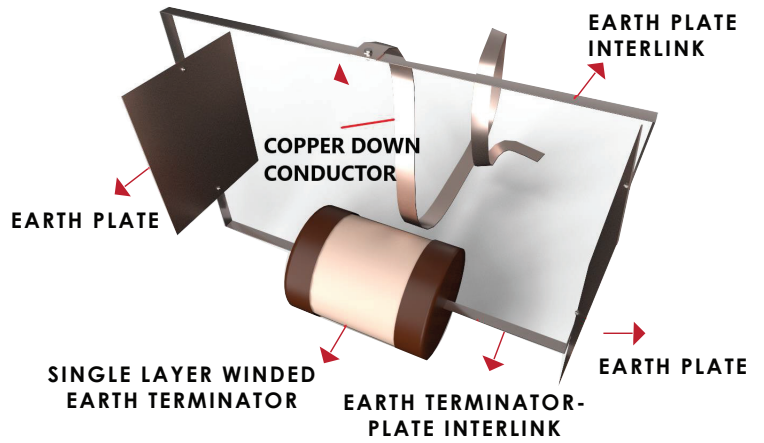
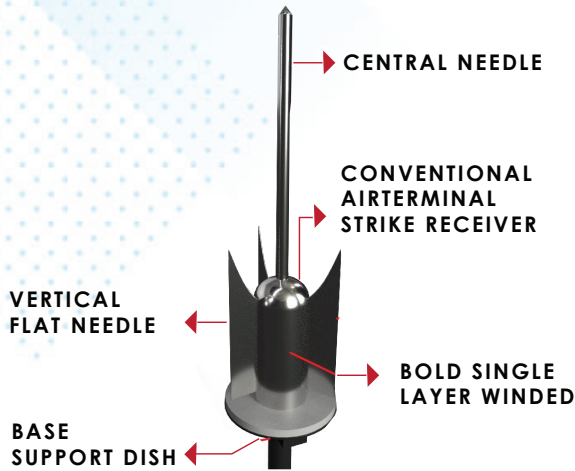




# Conventional Airterminal Systems

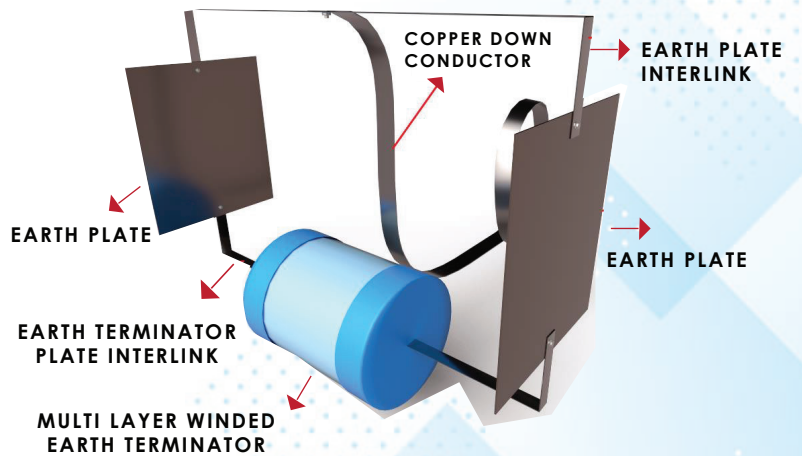
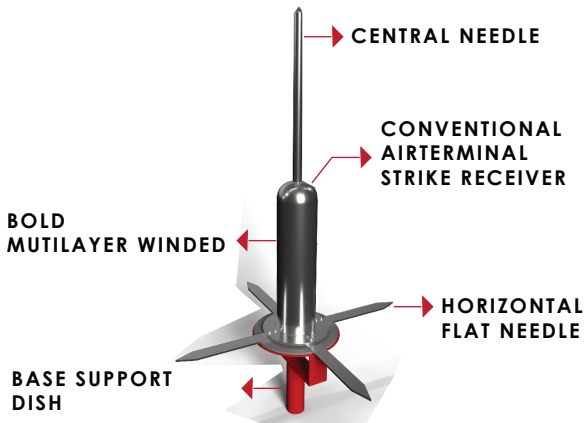
System 1: **FRANKSHIELD**  
VA-CT100

## EARTH TERMINATION SYSTEM



System 2: **FRANKSHIELD**  
VA-CT300

## EARTH TERMINATION SYSTEM







ESE - A7.0

## AMBIENT FRANCETECH ESE A7.0

STRIKE RECEIVER ELECTRODE

CENTRAL BOLD EMITTER

DOWN CONDUCTOR  
CONNECTING TERMINAL



Height of the Ambient ESE Airterminal h(m)	AMBIENT FRANCETECH ESE A7.0 ( $\Delta T:30\mu s$ )			
	LPL-I	LPL-II	LPL-III	LPL-IV
2	19	22	25	28
4	38	44	51	57
5	48	55	63	71
6	48	55	64	72
8	49	56	65	73
10	49	57	66	75
20	50	59	71	81
30	50	60	73	85
45	43	58	75	89
60	30	52	73	90

BASE ROD

## EARTH TERMINATION SYSTEM

EARTH PLATE

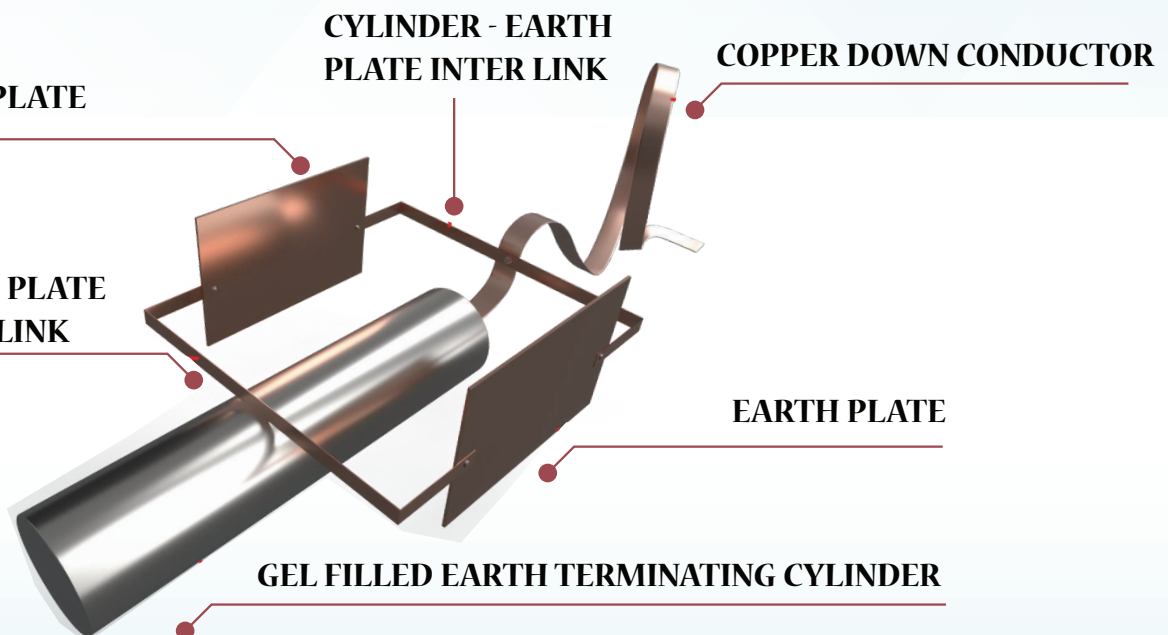
EARTH PLATE  
INTER LINK

CYLINDER - EARTH  
PLATE INTER LINK

COPPER DOWN CONDUCTOR

EARTH PLATE

GEL FILLED EARTH TERMINATING CYLINDER





ESE - A8.0

## AMBIENT FRANCETECH ESE A8.0

**STRIKE RECEIVER ELECTRODE**

**CENTRAL BOLD EMITTER**

**LOWER ELECTRODE**

**DOWN CONDUCTOR  
CONNECTING TERMINAL**



Height of the Ambient ESE Airterminal h(m)	AMBIENT FRANCETECH ESE A8.0 ( $\Delta T:45\mu s$ )			
	LPL-I	LPL-II	LPL-III	LPL-IV
2	25	28	32	36
4	51	57	64	72
5	63	71	81	89
6	63	71	81	90
8	64	72	82	91
10	64	72	83	92
20	65	74	86	97
30	65	75	89	101
45	65	75	90	104
60	65	75	90	105

**BASE ROD**

## EARTH TERMINATION SYSTEM

**EARTH PLATE**

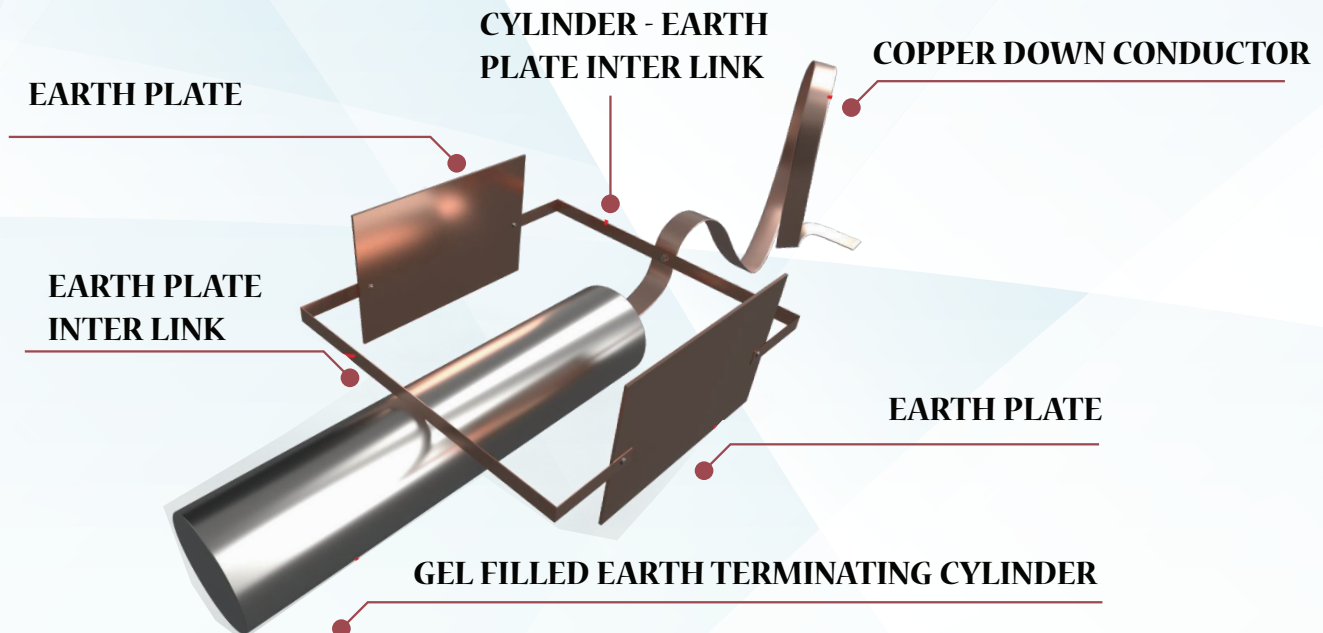
**EARTH PLATE  
INTER LINK**

**CYLINDER - EARTH  
PLATE INTER LINK**

**COPPER DOWN CONDUCTOR**

**EARTH PLATE**

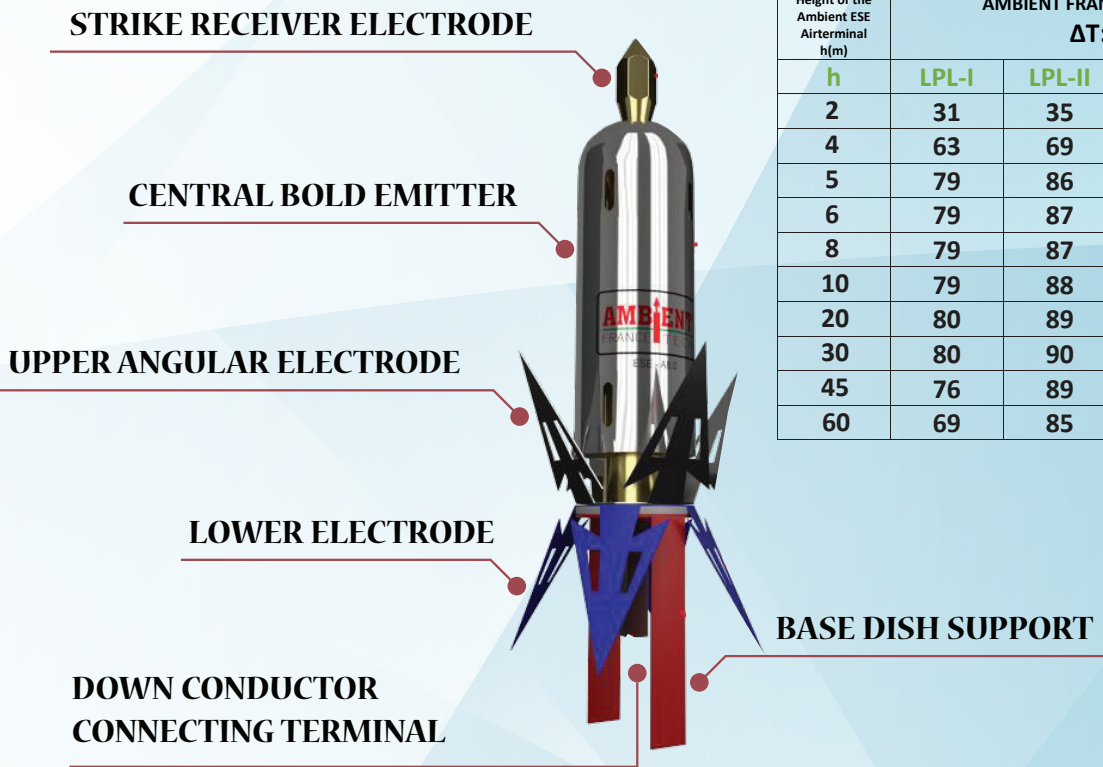
**GEL FILLED EARTH TERMINATING CYLINDER**





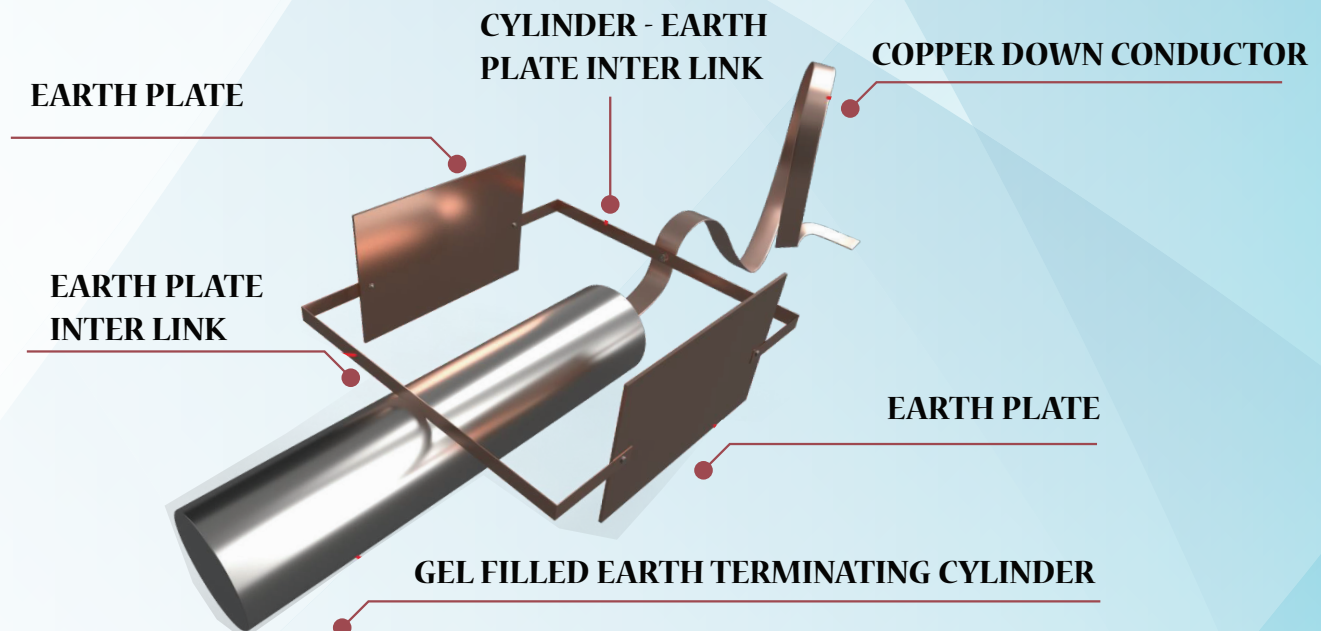
ESE - A9.0

## AMBIENT FRANCETECH ESE A9.0



Height of the Ambient ESE Airterminal h(m)	AMBIENT FRANCETECH ESE A9.0 $\Delta T: 60\mu s$			
	LPL-I	LPL-II	LPL-III	LPL-IV
2	31	35	39	43
4	63	69	78	85
5	79	86	97	107
6	79	87	97	107
8	79	87	98	108
10	79	88	99	109
20	80	89	102	113
30	80	90	104	116
45	76	89	105	119
60	69	85	104	120

## EARTH TERMINATION SYSTEM





## Internal Surge Protection Devices (Spd)

CITEL - FRANCE

Single / Three Phase Type 1+2+3 Surge Protection Devices



DS134VG

DS132VG

### DS132VG/DS134VG SERIES

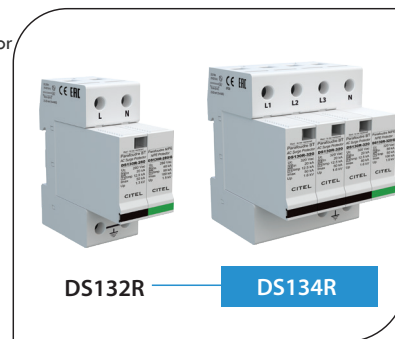
- Type 1+2+3 AC surge Protector
- In(N/PE): 80 kA
- Iimp total: 87.5 KA
- I<sub>max</sub>(N/PE): 100 KA
- Pluggable module for each phase
- Remote signaling (option)
- Optimized to TOV
- EN 61643-11, IEC 61643-11 compliance
- 2 Year Base Unit Warranty

Single / Three Phase Type 1+2 Surge Protection Devices



### DS132R / DS134R SERIES

- Type 1+2 AC Multipolar Surge Protector
- In: 20 kA
- Iimp (N): 50 KA
- I<sub>max</sub>(N): 50 KA
- Pluggable module for each phase
- Remote signaling (option)
- EN 61643-11, IEC 61643-11 compliance
- 2 Year Base Unit Warranty



DS132R

DS134R

Single / Three Phase Type 1+2 Surge Protection Devices



DS104R

DS102R

### DS104R / DS102R SERIES

- Type 1+2 AC Multipolar Surge Protector
- In: 30 kA
- Iimp: 8 KA
- I<sub>max</sub>: 100 KA
- Pluggable module for each phase
- EN 61643-11, IEC 61643-11 compliance

Single / Three Phase Type 2 Surge Protection Devices



### DAC 50-31 / DAC 50-20 SERIES

- Type 2AC Multipolar Surge Protector
- In: 20 KA
- I<sub>max</sub> total=200 KA
- Pluggable Module For Each Phase
- Complies with EN 61643-11, IEC 61643-11, UL1449ed4



DAC 50-31

DAC 50-20



## Internal Surge Protection Devices (SPD)

R-TEK USA

Single /Three Phase Type 1+2 Surge Protection Devices



RTL 320-25W1-31R

RTL 320-25W1-11R

### RTL 320-25W1-31R/11 R SERIES

- No follow current
- In: 25KA
- Iimp:25 KA
- Reliable thermo disconnecter device
- High discharge capacity
- EN 61643-11, IEC 61643-11 compliance
- DIN rail installation

Single /Three Phase Type 1+2 Surge Protection Devices



### RL320-50M2-31R/11R-B SERIES

- Double thermal disconnecter devices
- Quick response & pluggable
- Iimp:8 KA
- In: 30KA
- Imax: 50 KA (L-N) 65 KA ( N-PE)
- Complies with EN 61643
- DIN rail installation



RL320-50M2-11R-B

RL320-50M2-31R-B



Single /Three Phase Type 2 Surge Protection Devices



RL 320-40 31R

RL 320-40 11R

### RL 320-40 31R/11R SERIES

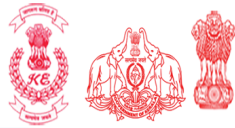
- Non-destructive screening technology for MOV+GDT (3+1 mode)
- High discharge capacity
- Reliable thermal disconnect device
- In: 20KA
- Imax: 40 KA
- Consisting of a base part and pluggable modules
- DIN rail installation



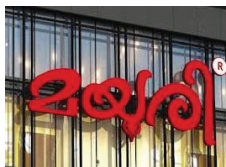
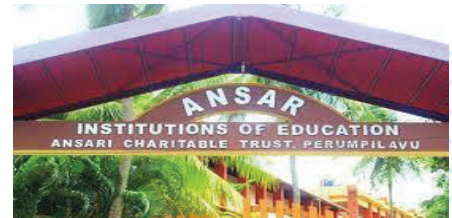
▶▶▶ SOME OF OUR PRESTIGIOUS CLIENTS



**KERALA EXCISE  
Department**



കേരള എക്സൈസ്  
വകുപ്പ്



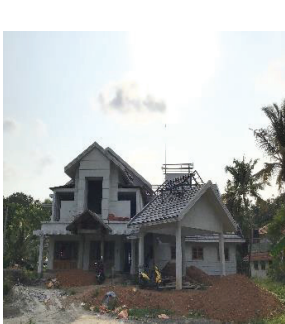
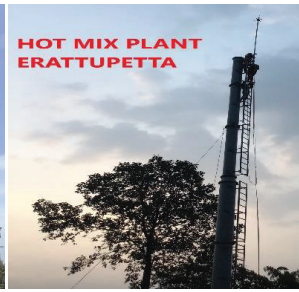
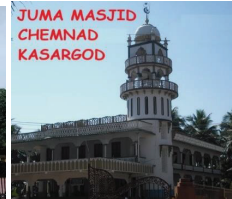
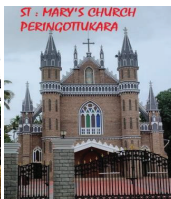
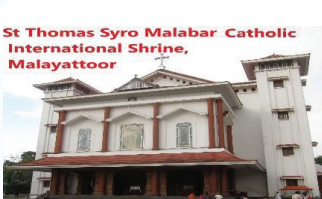
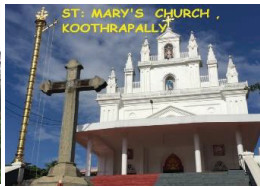




Misty Garden resorts and spa  
Mankulam, Munnar - Idukki  
Ph: 02-9452296, 02118 7462



in mind  
prathidham - chikita - athiveevanam  
institute for mind and brain  
minor post, karanthery, Thrissur, Kerala, India 68681



[newmate.in](http://newmate.in)  
[lightningarrestor.org](http://lightningarrestor.org)



Promoter of  
**FRANKSHIELD**  
Lightning Arrestors

Channel Partner of  
  
**CITEL**  
FRANCE

Associated Service Partner of  
  
Tshezert Instruments  
FRANCE

  
USA



# Newmate

ELECTRO SYSTEMS



**Parapukkara, Thrissur, Kerala, India - 680310.**  
**0480 2790108, +91 9847 040 108, +91 9072 391 108**

**Our Branches:**

**Calicut: +91 907 229 7108, Kottayam: +91 703 412 6108**

**Ernakulam: +91 9847 040 108**

 [www.lightningarrestor.org](http://www.lightningarrestor.org) | [www.newmate.in](http://www.newmate.in)

 [newmate1@gmail.com](mailto:newmate1@gmail.com)