

THE REAL EARTHING SOLUTIONS SINCE 1996

ISO 9001:2015 CERTIFIED



Newmate

ELECTRO SYSTEMS



Service Partner of

FRANKSHIELD

Lightning Arrestors

Channel Partner of



CITEL

FRANCE

Associated Service Partner of



Tshezert Instruments
FRANCE

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 | www.newmate.in



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 authorised channel partner of M/S CITEL ,France. All internal surge protection devices (AC/DC/Photovoltaic/Data/Telecommunication/Computer Network) are made in and imported from France.

Newmate Electro Systems is the associated service partners of - Ambient FranceTech of M/S Tshrezert Instruments, France and 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
- ⦿ 5 year replacement guarantee for lightning protection systems
- ⦿ 20 Year Annual Service Guarantee.
- ⦿ 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.

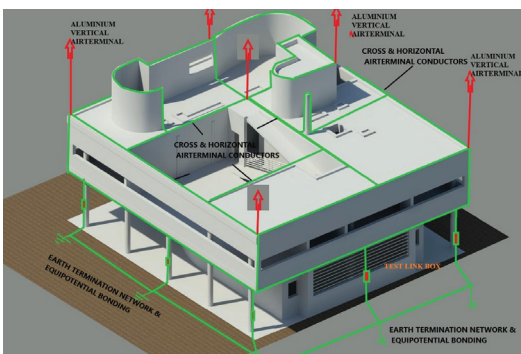


Types Of External Lightning Protection Systems

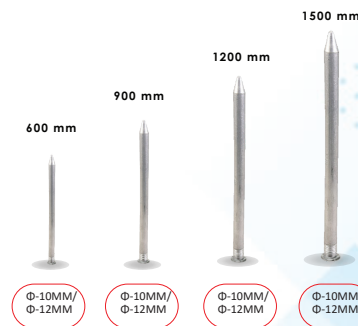
Conventional Lightning Protection Systems



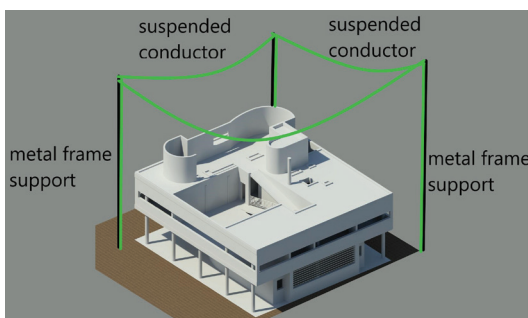
System 1: Combined Vertical-Horizontal-Mesh System (With Air terminal)



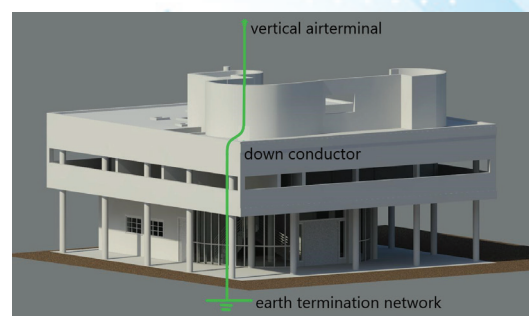
ALUMINIUM VERTICAL AIRTERMINAL



System 2: Catenary/Suspended Wire System



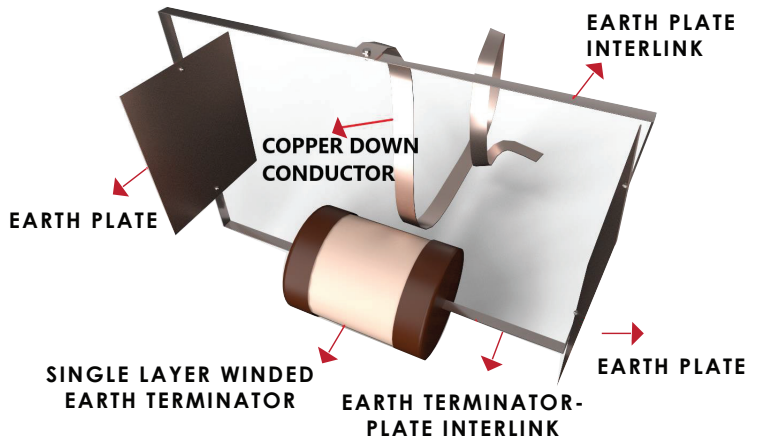
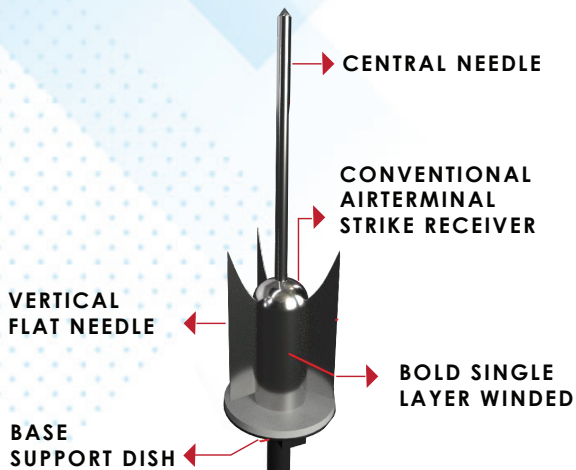
System 3: Vertical Airterminal System



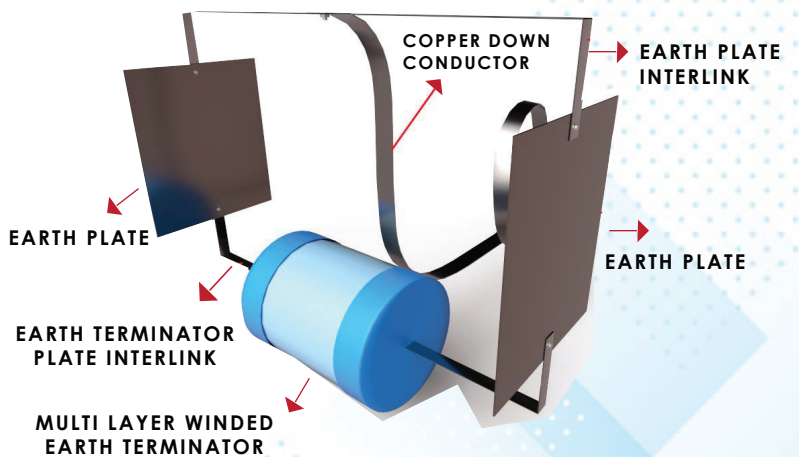
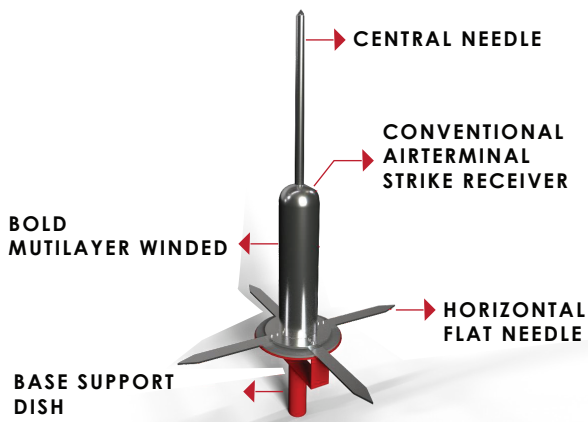


Conventional Airterminal Systems

System 1: **FRANKSHIELD**
VA-CT100



System 2: **FRANKSHIELD**
VA-CT300



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

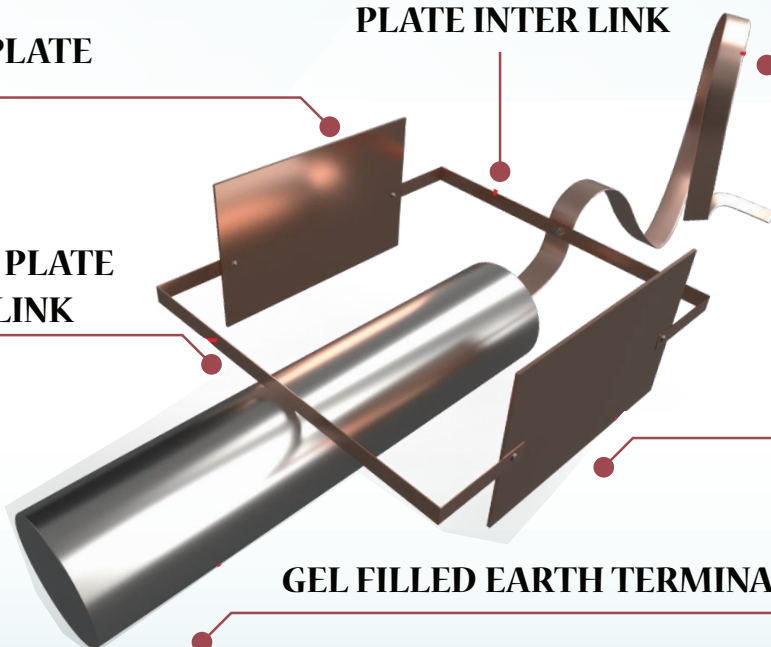
EARTH PLATE

**CYLINDER - EARTH
PLATE INTER LINK**

COPPER DOWN CONDUCTOR

**EARTH PLATE
INTER LINK**

EARTH PLATE



GEL FILLED EARTH TERMINATING CYLINDER

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 PLATE

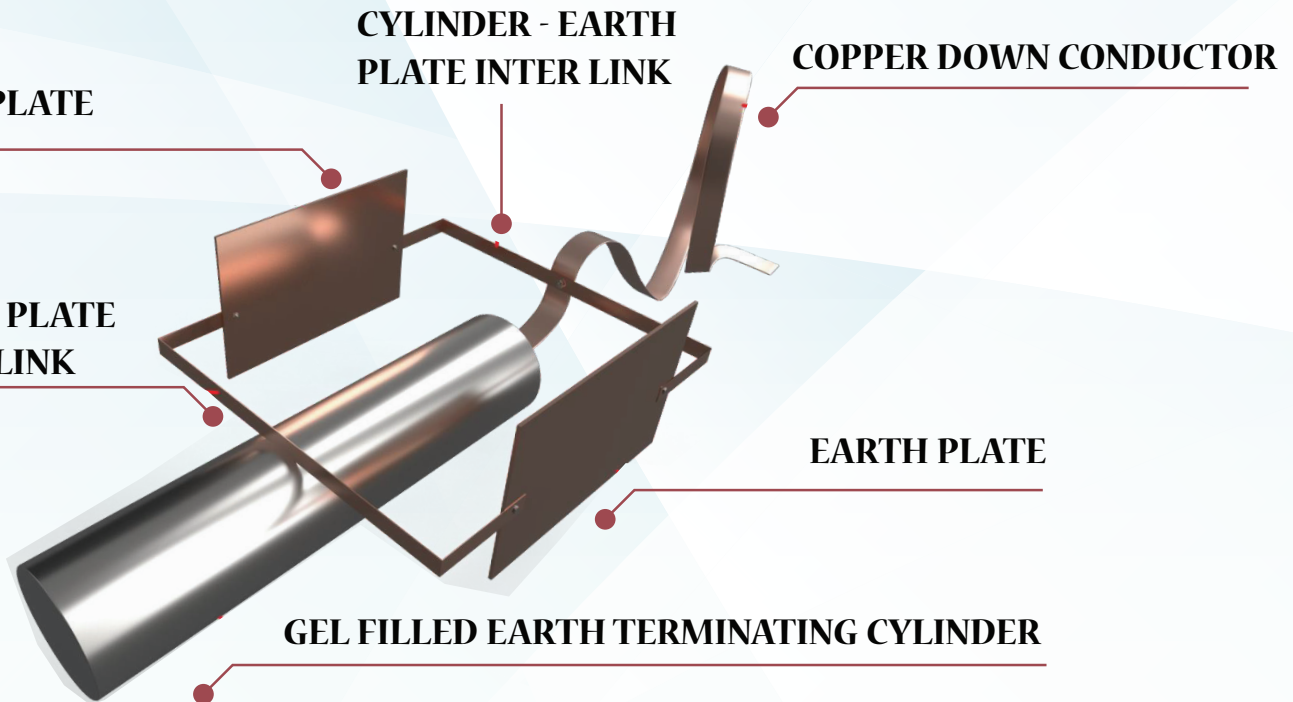
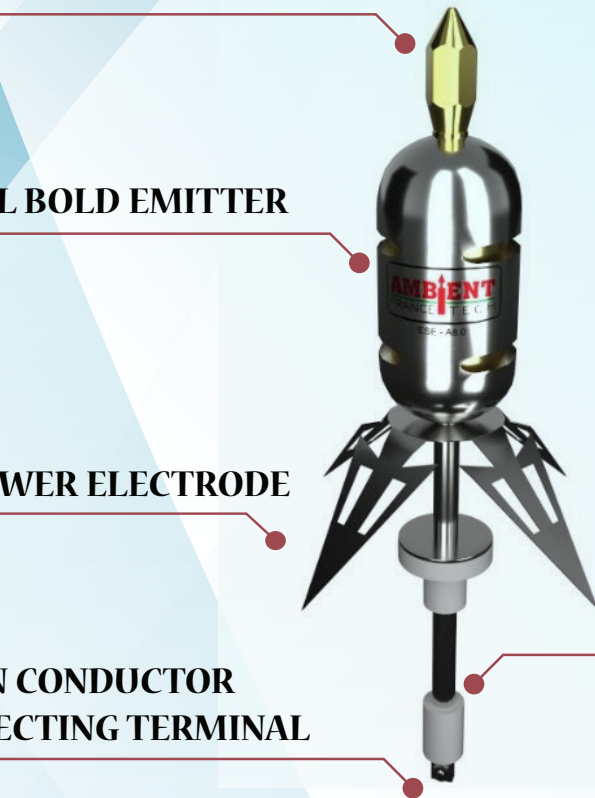
**CYLINDER - EARTH
PLATE INTER LINK**

COPPER DOWN CONDUCTOR

**EARTH PLATE
INTER LINK**

EARTH PLATE

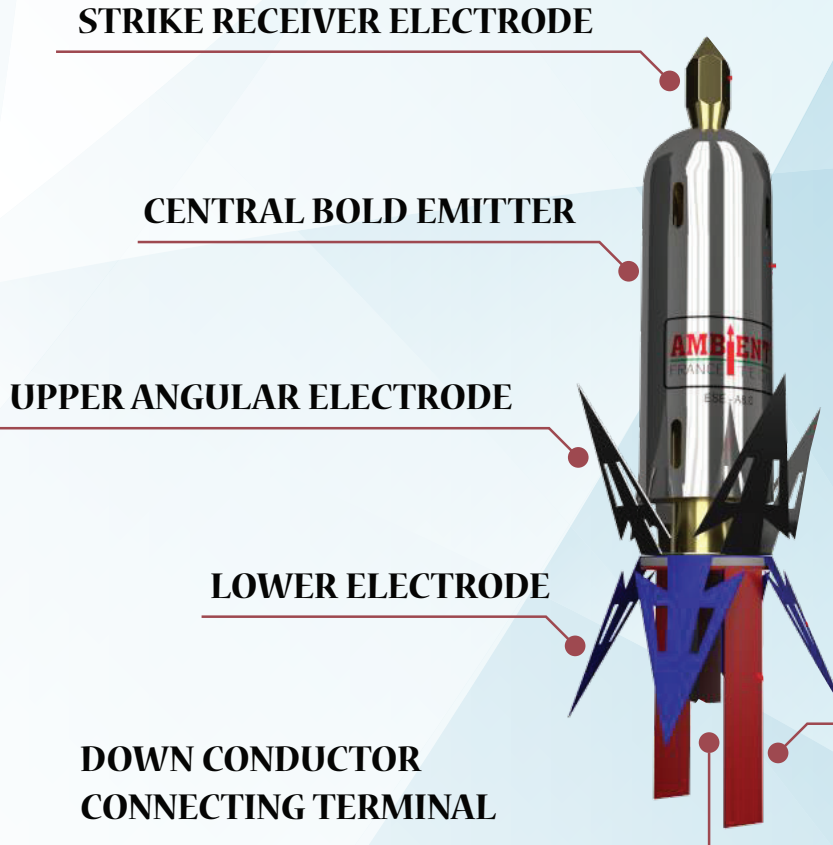
GEL FILLED EARTH TERMINATING CYLINDER



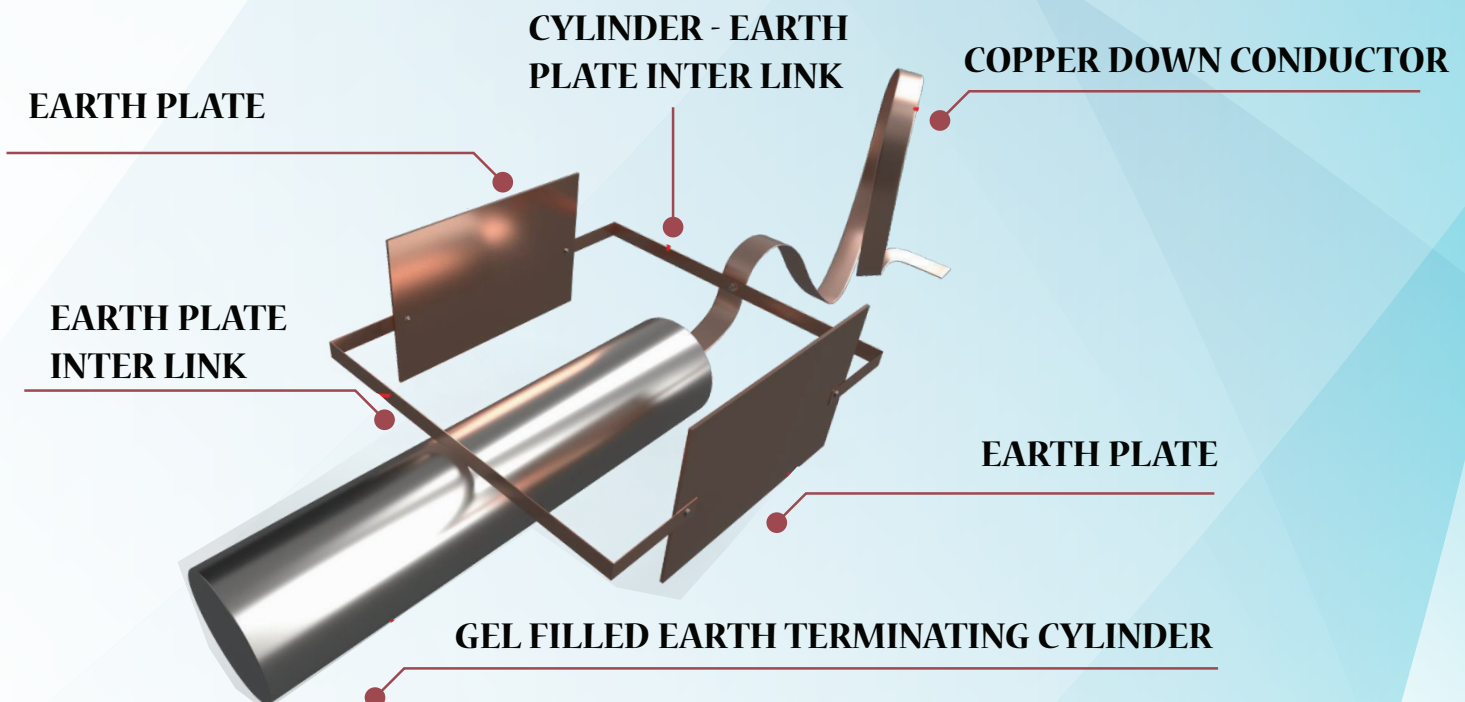


ESE - A9.0

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





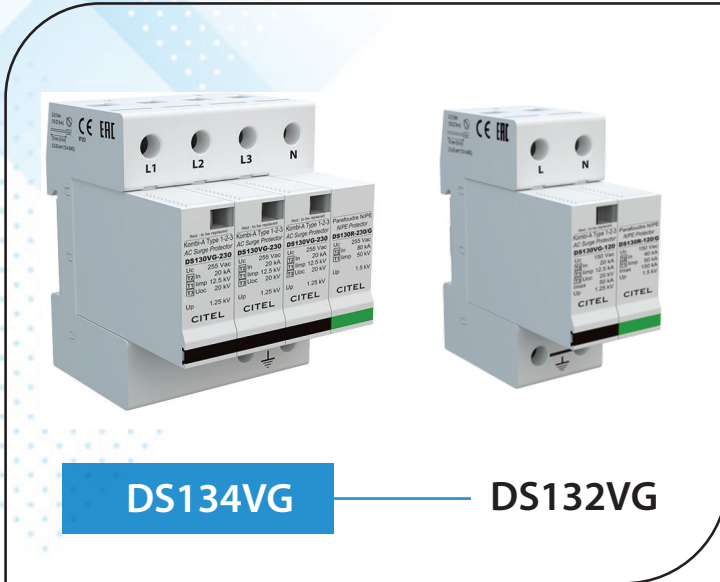
Internal Surge Protection Devices (SPD)

CITEL - WORLD NO.1 SPDs [MADE IN FRANCE & IMPORTED]

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



CITEL



DS134VG

DS132VG

DS132VG/DS134VG SERIES

- Type 1+2+3 AC surge Protector
- In(N/PE): 80 kA
- Iimp total: 87.5 KA
- Imax(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



CITEL

DS132R / DS134R SERIES

- Type 1+2 AC Multipolar Surge Protector
- In: 20 kA
- Iimp (N): 50 KA
- Imax(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



DS104R / DS102R SERIES

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

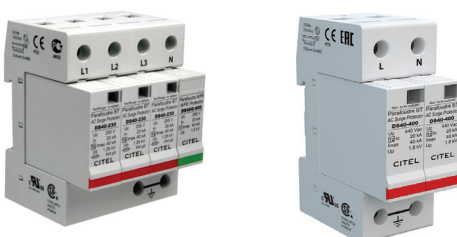
DAC 50-31 / DAC 50-20 SERIES

- Type 2AC Multipolar Surge Protector
- In: 20 KA
- I_{max total}=200 KA
- Pluggable Module For Each Phase
- Complies with EN 61643-11, EC 61643-11, UL1449ed4



DS44 / DS42 SERIES

- Type 2AC Multipolar Surge Protector
- In: 20 KA
- I_{max total} 160 KA
- Pluggable Module For Each Phase
- Complies with EN 61643-11, IEC 61643-11, UL1449ed4



DS44

DS42

▶▶▶ SOME OF OUR PRESTIGIOUS CLIENTS

**KERALA EXCISE
Department**



**കേരള എക്സൈസ്
വകുപ്പ്**



KWA
Kerala Water Authority

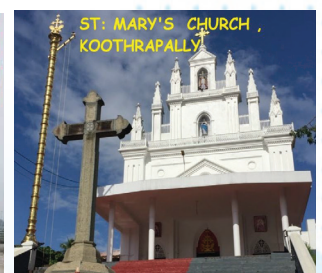
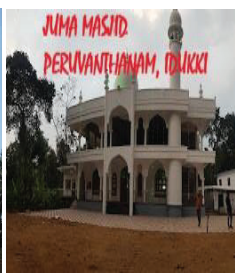
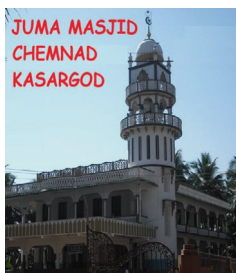
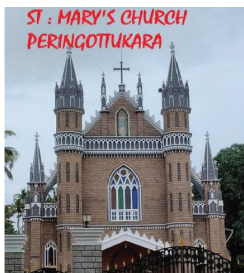
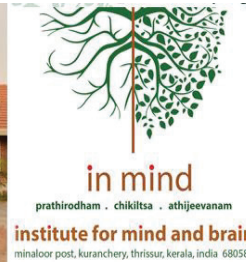
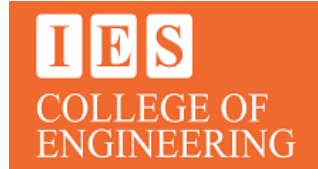


**WESTFORT
HOSPITAL**



Ahalia Hospital





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 FRANCE



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