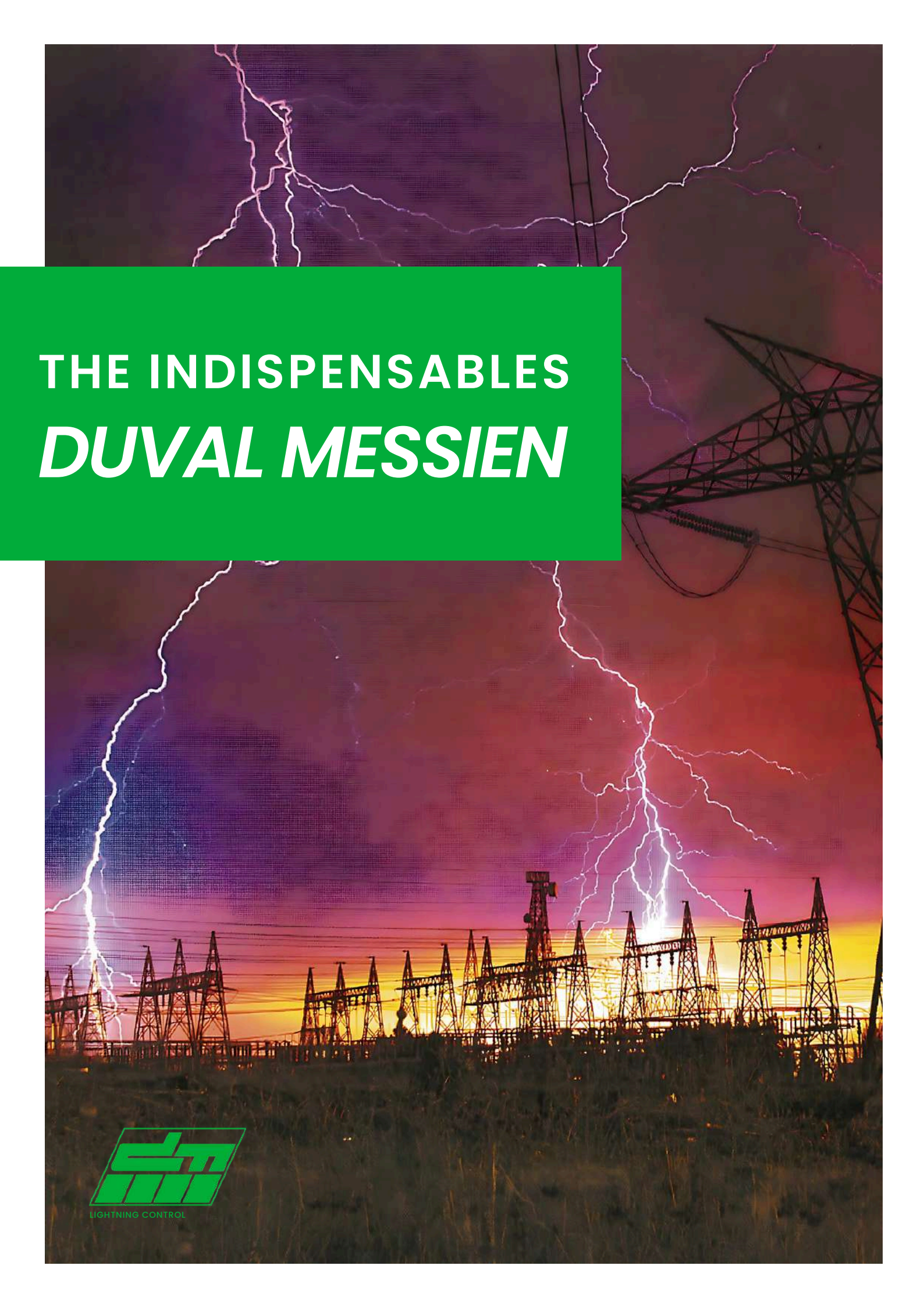




THE INDISPENSABLES ***DUVAL MESSIEN***



LIGHTNING CONTROL



TIGSIN1000

LIGHTNING CONDUCTOR WITH SIMPLE ROD

These lightning rods offer a protection radius of between 5.5m and 31.10m depending on the height and level of protection (protection angles can be provided on request). They are designed to withstand wind speeds of up to 160 km/h without guying. These can be fixed using all of the mounting brackets as well as the 2 tripod models.

DESIGNATION	REFERENCE
PASSIVE SIMPLE ROD INOX DIAM 20 MM X 1000 MM	TIGSIN1000
PASSIVE SIMPLE ROD INOX DIAM 20 MM X 2000 MM	TIGSIN2000



PDASAT3N-25E

EARLY STREAMER EMISSION SYSTEM

The excitation advance of the SAT 3° and G2° is obtained by a so-called "impulse" device. Furthermore, the SAT 3° is also equipped with a "booster" which allows the propagation of the tracer for optimal efficiency. The SAT 3° can be tested remotely using its remote control and the G2° can be tested using a wired tester.

DESIGNATIONS	REFERENCES
STAINLESS STEEL LIGHTNING ROD SATELIT°3-25 (TESTABLE)	PDASAT3N-25E
STAINLESS STEEL LIGHTNING ROD SATELIT°3-45 (TESTABLE)	PDASAT3N-45E
STAINLESS STEEL LIGHTNING ROD SATELIT°3-60 (TESTABLE)	PDASAT3-60E
SATELIT°+G2° 1000 STAINLESS STEEL LIGHTNING ROD	PDASAT+G2-1000
SATELIT°+G2° 2500 STAINLESS STEEL LIGHTNING ROD	PDASAT+G2-2500
SATELIT°+G2° 4500 STAINLESS STEEL LIGHTNING ROD	PDASAT+G2-4500
SATELIT°+G2° 6000 STAINLESS STEEL LIGHTNING ROD	PDASAT+G2-6000



STORMSAT-60E

LIGHTNING PROTECTION STATIONS

The STORMSAT® offers complete, connected protection against lightning.

This protection unit uses advanced technologies for its excitation advance.

Its integrated storm detector measures sudden variations in electrostatic fields, thus ensuring the prevention of risks linked to lightning.

An impact counter is integrated into the body of the control unit and allows you to be informed in real time of a lightning strike.

Finally, the LMS (Lightning Monitoring System) software instantly centralizes all data relating to lightning, accessible remotely on a computer thanks to the system's connectivity.

DESIGNATION	REFERENCE
LIGHTNING PROTECTION STATION STORMSAT® 60	STORMSAT-60E



TESTPERCAB



TESTS3N

CONTROL DEVICES FOR ESE & CONTROL UNITS

Lightning rods can be tested on site with the wired test box. Simple and quick, this test can be carried out either by removing the lightning rod or by using the telescopic pole.

The SAT3® and STORMSAT® can also be tested on site with its remote tester, without requiring disassembly.

DESIGNATIONS	REFERENCES
WIRED REMOTE TESTER FOR G2 LIGHTNING ROD	TESTERSAT+G2
MONO REMOTE TESTER FOR SAT3 LIGHTNING ROD	TESTS3N
REMOTE MULTITESTER PACK FOR SAT3 LIGHTNING ROD	TESTS3MULTI
TEST POLE FOR SAT3 / G2 LIGHTNING ROD	TESTPERCAB
DIAG SAT® FOR STORMSAT® PROTECTION UNIT	DIAGSAT



MAT342NIF

TUBULAR MASTS

The extension poles fit together by overlapping. Each mast consists of a stainless steel tube, a fitting and four conductor mounting collars. Very strong, it is possible to combine 3 masts without guying for a wind speed of up to 160 km/h in extreme conditions.

DESIGNATIONS	REFERENCES
NESTABLE AND THREADED STAINLESS STEEL MAST 2M* 1 X Ø34	MAT342NIF
NESTABLE STAINLESS STEEL MAST 4M (2 X 2M)** 2 X Ø34	MIEMB4S3N
NESTABLE STAINLESS STEEL MAST 6M (3 X 2M)** 2 X Ø34 / 1 X Ø42	MIEMB6S3N
NESTABLE STAINLESS STEEL MAST 8M (4 X 2M)***	MIEMB8S3N

*Fits directly on SAT3 / Add a MANG2-16/34 sleeve for SATELIT+G2

**Provide 2 fixings for the installation of a lightning rod on a 2 to 4 meter mast

Provide 3 fixings for the installation of a lightning rod on a 5 to 6 meter mast

***Provide guying



COMPTEURH



COMPTCCF03

LIGHTNING STRIKE COUNTERS

Lightning strike counters are intended to detect and count lightning strikes received by structures equipped with lightning rods.

DESIGNATIONS	REFERENCES
ELECTROMECHANICAL COUNTER	COMPTCCF03
TIME-STAMPED DIGITAL COUNTER	COMPTEURH
DIGITAL METER	COMPTDIG



PDA2RAC



ATTVMAT30



TREPIED



TREPIED2



ECLATEUR



AFK0080BC

CONDUCTOR FIXINGS ON MASTS

The clamps allow the conductor to be fixed on the mast or on the lightning rod.

DESIGNATIONS	REFERENCES
LONG STAINLESS STEEL HOSE CLAMP. 360MM	COLSER360
LONG STAINLESS STEEL HOSE CLAMP. 520MM	COLSER520
LONG STAINLESS STEEL HOSE CLAMP. 1000MM	COLSER1010
CONDUCTOR CONNECTION TO LIGHTNING ROD	PDA2RAC

MAST FIXINGS

The fixings are for the installation of lightning rods alone or equipped with extension poles.

DESIGNATIONS	REFERENCES
VERTICAL BOLTING BRACKET OFFSET 200 MM	ATTVMAT200
VERTICAL BOLTING BRACKET OFFSET 300 MM	ATTVMAT300
CHIMNEY RATCHET STRAPPING (PAIR) WITH 5M STRAPPING	CERCLCHEM
HORIZONTAL PLATE FOR MAST DIAM.34MM	PLATMAT34
HORIZONTAL PLATE FOR MAST DIAM.42MM	PLATMAT42
X OFFSET COLLAR	COLLRMATX
CROSSED X OFFSET COLLAR	COLLRMATC
WEIGHTED TRIPOD X 3 SLABS FOR POLE DIAM. 50MM MAX	TREPIED
UNIVERSAL TRIPOD	TREPIED2
ADDITIONAL TRIPOD PAD	DMDALETTE
SATELIT®+G2® / MAT SLEEVE DIAM.34 MM	MANG2-16/34
PLATE FOR STAINLESS STEEL IMPACT POINT	PLAPOICHOC
CONDUCTIVE STAINLESS STEEL CONNECTION ON SINGLE ROD DIAM. 20MM	RACONPTE
RUBBER WATER DISCHARGE CONE	CONECAOUT
ZINC WATER DISCHARGE CONE	CONEZINC

ACCESSORIES

These accessories ensure the balancing of the potentials of the different grounds. To avoid damage and limit risks, it is recommended to insert antenna mast spark gaps on the grounding circuit.

DESIGNATIONS	REFERENCES
ANTENNA SURGE DIVERter	ECLATEUR
2M PROTECTIVE TUBE WITH 3 FIXING	GAIPROPAR2
2M STAINLESS STEEL PROTECTIVE TUBE	GAIPROTINO
STAINLESS STEEL CONTROL JUNCTION	AFK0080BC
TRIANGLE MARKER	PLAQDMTEOR2



ATTISOPLAT



SERBALAI



PLOCIMATTA



RUBCUE302



COURUBCUE



TREPLET50



TRCUE10PVC

FIXINGS FOR FLAT CONDUCTORS

These fixings allow the installation of the conductor. Each type of fixing depends on the building materials.

DESIGNATIONS	REFERENCES
TINNED PLATED FIXING WITH U SHAPE FOR TILE OR SLATE ROOF	ATTARDOIS
INSULATING CLIP – 20MM OFFSET	ATTISOPLAT
NYLON PLUG	CHEVNYL
GALVANIZED STEEL DRIVING IN HOOK	CRAMPGALV
STAINLESS STEEL DRIVING IN HOOK	AFH1030CM
CLIP INOX	CLIPINOX
RUBBER/ALU SEALING WASHER DIAM. 14X2X8MM	RONDVULC
ALUMINUM WATERPROOF POP RIVET	RIVPOPALU
COPPER WATERPROOF POP RIVET	RIVPOPCU
STAINLESS STEEL WATERPROOF POP RIVET	RIVPOPINO
CEMENT + PVC CONDUCTOR SUPPORT STUDS	PLOCIMATTA
TINNED PLATED COPPER DECK PLATE	PONTCUE
FLAT / ROUND STAINLESS STEEL COUPLING	RACPLTRND
FLAT/ROUND STAINLESS STEEL COUPLING WITH AN M10 SCREW	RACPRVIS
CABLE BRASS DIP	SERBARLAI

CABLES AND TAPES

They allow the flow of lightning current and equipotential connections.

DESIGNATIONS	REFERENCES
FLEXIBLE CABLE H07 VK 502 X 1 GREEN / YELLOW (M)	HO7VK50V/J
FLEXIBLE CABLE H07 VK 952 X 1 GREEN / YELLOW (M)	HO7VK95V/J
BARE COPPER CABLE 25MM ² IN 50M COIL	CABLETTE25
50MM ² BARE COPPER CABLE IN 50M COIL	CABLETTE50
ALUMINUM TAPE 30X3 MM (M)	RUBALU303
304L STAINLESS STEEL TAPE 30X2MM (M)	RUBINX302
TINNED PLATED COPPER 30X2MM (M)	RUBCUE302
PREFORMED ELBOW IN TINNED COPPER TAPE (30X2MM)	COURUBCUE

BRAIDS AND SHUNTS

Braids are used to establish equipotential connections between metal masses, while shunts are used to connect metal masses to down conductors.

DESIGNATIONS	REFERENCES
FLAT TINNED COPPER BRAID 50MM ² (M)*	TREPLET50
FLAT BRAID PVC 75 MM ²	TRCUE75PVC
FLAT BRAIDPVC 10 MM ²	TRCUE10PVC

* Other dimensions and sections on request



PIQINOX1M

PIACUA1M

EARTH RODS

Earth rods are used to create lightning or electrical earth connections.

DESIGNATIONS	REFERENCES
COPPER-PLATED STEEL DIAM. 17MM LONG. 1M	PIACUA1M
STAINLESS STEEL DIAM. 16MM LONG. 1M	PIQINOX1M



CONPIQRUB2

EARTH RODS ACCESSORIES

They allow the connection of horizontal strip-type electrodes with vertical electrodes.

DESIGNATIONS	REFERENCES
EARTH ROD TO TAPE CONNECTOR	CONPIQRUB2
BOUTEROL WITH NEEDLE	BOUTEROL



GRILTER2/1

EARTH GRIDS

They allow the creation and improvement of lightning earthing. Each grid is made up of 115 x 40 mm mesh.

DESIGNATION	REFERENCE
COPPER EARTH GRID 2X1M - MESH 115X30X30MM	GRILTER2/1



REGFTED230

INSPECTION PITS

The inspection pit should be placed in the lower part of each down conductor. It makes it possible to disconnect the lightning earth connection, the down conductor and the equipotential connection with the general earth network of the site (excavation bottom, TGBT, etc.).

DESIGNATION	REFERENCE
CAST IRON INSPECTION PIT DIAM.230MM	REGFTED230



BAREQUI150

GROUND COILS AND EQUIPOTENTIAL BARS

Pre-drilled equipotential bars are used for connecting different earth conductors (cable, round or flat). The ground coil installed in series between two earth connections increases the connection impedance, which, in the case of a short connection, limits the shock effect and the transmission of energy towards the distribution while maintaining equipotentiality.



SELFTERRE

DESIGNATIONS	REFERENCES
HF GROUND COIL	SELFTERRE
BAR EQUIP. COPPER+2 INSULATORS 50X5MM LONG. 100MM	BAREQUI100
BAR EQUIP. COPPER+2 INSULATORS 50X5MM LONG. 150MM	BAREQUI150
BAR EQUIP. COPPER+2 INSULATORS 50X5MM LONG. 200MM	BAREQUI200
BAR EQUIP. COPPER+2 INSULATORS 50X5MM LONG. 250MM	BAREQUI250

GROUND TESTER

The ground tester is an autonomous and independent product that allows you to measure the resistance of an earth connection, but also the resistivity of the ground. This device is delivered with all the equipment necessary for the various measurements.

REFERENCE	MDM20K
Resistance measurement range	0 - 20 kΩ
Resolution	0.01 Ohm
Operating temperature	- 10 °C / + 50 °C
Battery	12 V rechargeable - charger: 220 V / 240 V + "cigarette lighter"
Dimension	221 x 189 x 99 mm
Weight	2 Kg



MDM20K



GROUND IMPROVER - TEREC+

The TEREC+ ground improver is made of highly conductive materials which increase the efficiency of the earth connection. It is widely used in cases where soil resistivity is high, and in the presence of erosion due to flooding.

REFERENCE	TEREC+SAC
Designation	Soil improver
Weight	15 Kg



TEREC+SAC

ARGOSWELD® EXOTHERMIC WELDINGS



ARGOSWELD® exothermic welding solutions allow you to connect different types of conductors safely, reliably, simply and quickly (flat conductor, round conductor, reinforcing steel, steel, earth rod, etc.).

The principle consists of bringing together a filler metal and a priming product in a suitable mold.

Under very high temperatures, the copper will melt, then flow inside the mold onto the parts to be welded in order to bond them together.

This system does not require any external power supply.

To facilitate implementation and ensure user safety, Duval Messien has developed a complementary ARGOS E-WELD range with:

- A remote electronic igniter equipped with a wired connection to connect it to the capsule, thus ensuring that a safe distance is maintained during use.
- A copper capsule system containing the solder powder. Unlike tubes, it does not require lighting powder. Eco-friendly, this innovation generates less residue.



REFERENCE	DESIGNATION	NATURE	OBSERVATION	WEIGHT
ARG0025MA	Filler metal	Powder	-	25 g
ARG00250MA	Filler metal	Powder	-	250 g
ARGBB14253	BB1 mold 25x3mm straight	Graphite standard	For 80-100 welds	1,6 kg
ARGBR24142253	BR2 mold 25x3mm + earth rod	Graphite standard	For 30 mm flat	1,6 kg
ARGCC2495	CC2 cable to cable mold 95mm² T	Graphite standard	Pours around 95 mm²	1,6 kg
ARGCR1414216	Cable mold 16 mm² - 5/8 earth rod	Graphite standard	Pours around 16 mm²	1,6 kg

The welding kit is delivered with the ignition powder, in tubes or capsules of 25 to 400 grams depending on the type and number of connections desired. In addition, it is possible to have all the accessories for protecting and cleaning the mold (case, gloves, pliers, brush, file, etc.).

FLAT AND FLAT

BB1	BB3	BB7	BB14	BB41

CABLE AND CABLE

CC1	CC2	CC4	CC7	CC14

CABLE AND IRON CONCRETE

CRE1	CRE2	CRE3	CRE6	CRE17

CABLE AND STEEL

CS1	CS2	CS3	CS7	CS8	CS9	CS25	CS27

FLAT AND CABLE

CB1	CB4	CB5

CABLE AND EARTH ROD

CR1	CR2	CR3

FLAT AND EARTH ROD

BR1	BR2

FLAT AND STEEL

BS1	BS2

STORMDETEC – STORM DETECTOR™

Advanced detection of storms makes it possible, with an anticipation period, to implement procedures of protection, to limit the importance of the destructive effects of storms to reduce their impact and economic cost to :

- Risks incurred by people,
- Risks linked to destruction, production hazards of goods or services.

The STORMDETEC™ (AVF3000DF) is a new generation storm detector for professional use, measuring variations in the electrostatic field of the atmospheric layer close to the ground based on the so-called "field mill" technique.

Its principle is based on the real-time and continuous measurement of the local electrostatic field and on the instantaneous recognition of symptomatic developments in this field which determine the high probability of an imminent storm with a local risk of lightning.

The STORMDETEC™ is a professional storm detector with a wide spectrum of use, fully configurable according to the characteristics of the risk policy implemented by the user, mainly by adjusting the levels of the alarm thresholds, but also by the adjustment of its environment coefficient to compensate for the influence of the environment of the site on which it is installed.

The STORMDETEC™ comes with:

- A control box (CCA)
- An electrostatic field measuring head (TMC)
- 20 m of cable to connect the measuring head (TMC) with the control box (CCA),
- 5 m of cable to connect the CCA to a PC.
- Installation software
- Technical and maintenance instructions.



TYPE 1 AND TYPE 1+2 SURGE PROTECTOR

Duval Messien surge arresters are plug-out Type 1 or Type 1+2 surge arresters, of very high power, intended to be installed at the entrance to the low-voltage installation when it is equipped with a lightning rod. The 'Multi-Varistor' technology used provides a very high discharge current and the best possible behavior for the LV network (no follow-on current). Given their very high discharge capacity, these surge arresters are particularly compact and are offered in a multi-pole version to protect single or three-phase networks. The variety of the range depends on the different neutral regimes, the electrical characteristics of the building, the equipment to be protected and the country.

REFERENCES		AG-25GR 4P	AG-25GR 2P	AG-25GR 1P
TYPE OF SURGE PROTECTOR		Type 1		
TECHNOLOGY		MOV		
SURGE PROTECTOR CONFIGURATION		Three-phase	Single phase	Unipolar
MAX AC VOLTAGE OPERATING	Uc	385 Vac		
MAX LIGHTNING CURRENT PER POLE - MAXIMUM WAVE STRENGTH 10/350MS	Iimp	25 kA		
RATED DISCHARGE CURRENT - 15 SHOCKS UNDER 8/20MS WAVE	In	25 kA		
MAXIMUM DISCHARGE CURRENT - MAXIMUM WAVE WITHSTAND 8/20MS	Imax	100 kA		
PROTECTION LEVEL (8/20MS)	Up	< 2.0 kV		
FOLLOW CURRENT EXTINGUISHING CAPABILITY A.C	Ifi	5 kA rms		
MAX. BACKUP FUSE		315A gL		
RESPONSE TIME	tA	< 100 ns		
OPERATING TEMPERATURE RANGE	Tu	-40°C-80°C		
CROSS-SECTION AREA (MIN.)		4 mm ²		
CROSS-SECTION AREA (MAX.)		35 mm ²		
FOR MOUNTING ON		35 mm Din rail		
ENCLOSURE MATERIAL		Thermalplastic UL94-V0		
DEGREE OF PROTECTION		IP20		
STANDARDS		IEC 61643-11		

*other products on request



TYPE 2 SURGE PROTECTOR

Type 2 pluggable surge protectors are used for the protection of low voltage networks at the TGBT or divisional cabinets. Based on high-power varistor technology equipped with disconnecter and associated indicator, these surge protectors guarantee maximum protection efficiency, flow capacity and reliability. Duval Messien surge protectors are available in a multi-pole version and in multiple voltages to protect all types of single-phase or three-phase networks. The variety of the range depends on the different neutral regimes, the electrical characteristics of the building, the equipment to be protected and the country.

REFERENCES		AG-40-385-4	AG-40-385-2	AG-40-385-1
TYPE OF SURGE PROTECTOR		Type 2		
TECHNOLOGY		MOV		
SURGE PROTECTOR CONFIGURATION		Three-phase	Single phase	Unipolar
MAX AC VOLTAGE OPERATING	Uc	385 Vac		
RATED DISCHARGE CURRENT - 15 SHOCKS UNDER 8/20MS WAVE	In	20 kA		
MAXIMUM DISCHARGE CURRENT - MAXIMUM WAVE WITHSTAND 8/20MS	Imax	40 kA		
PROTECTION LEVEL (8/20MS)	Up	< 1.8 kV		
PROTECTION LEVEL 5 KA	Up	< 1.4 kV		
MAX. BACKUP FUSE		125A gL		
RESPONSE TIME	tA	< 25 ns		
OPERATING TEMPERATURE RANGE	Tu	-40°C-80°C		
OPERATING STATE/FAULT INDICATION		green/red		
CROSS-SECTION AREA (MIN.)		4 mm²		
CROSS-SECTION AREA (MAX.)		35 mm²		
FOR MOUNTING ON		35 mm Din rail		
ENCLOSURE MATERIAL		Thermalplastic UL94-V0		
DEGREE OF PROTECTION		IP20		
STANDARDS		IEC 61643-11		

*other products on request





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