



TP13P and TP13T - Voltage Absence Detector Stick with air gap arrester for indoor use

Use : Runs without batteries, and has integrated self-testing system, making it a testing device always ready for use on internal installations

Réf.	Weight (g)	Version	Detector	Stick	Length
TP13P	800	Set at 5 to 36 kV	TDP 536	TP 13 PM	1.17 metres
TP13T	1 350	Telescopic, range 5 to 36 kV	TDP 536	TR 245U	0.85/1.50 metres



TDP536 and TDP572 - Voltage Absence Detector Stick with air gap arrester for indoor use

Standard : Conforme à C18 311 et EDF SPS n°C221

2 standard voltage ranges: 5-36 kV - 5-72.5 kV.

Operates without battery

Flashing warning light.

Integrated piezoelectric self-test system for checking all moving parts.

Dimensions compatible with use of stick holder rings.

Black polycarbonate container, fixed using universal end-fittings.

Fixing on all types of stick using available intermediary joints.

Supplied with straight antenna of dimensions - L 40 mm - Ø 10 mm 50Hz

A 60Hz version is also available: references: TDP536A and TDP572A

Réf.	Weight (g)	Voltage	Straight 40 mm antenna	Dimensions
TDP536	300	5-36 kV	41811 B	Main body ø 49 mm x L 195 mm
TDP572	300	5-72.5 kV	41811 B	Main body ø 49 mm x L 195 mm



TL06 - Stick Access Hole

Use : Access hole for passing voltage detection stick through the protective wall of an "open" installation, guaranteeing personal protection as defined in standard NFC 13100.

Materials: moulded plastic. External installation by 3 screws tightened onto a steel fixing flange.

Réf.	Weight (g)	Opening
TL06	110	ø 60 mm



TS48 - Stick Wall Brackets

Semi-rigid plastic, supplied with wood fixing screw

Réf.	Weight (g)	Stick diameters	Low Bracket Diameter
TS48 06	90	28 to 30 mm	36 mm
TS48 10	150	32 to 36 mm	58 mm

Voltage Absence Detector Sticks

- Telescopic Sticks For Voltage Absence Detection -



TP13T - Insulated stick fitted with Voltage Absence Detector with air gap arresters

Standard : IEC60855

Voltage Absence Detector stick for use before earthing a line or a transformer when carrying out works on MV substations or facilities.

Comprising:

- TR245U: Telescopic insulated stick with universal end fitting
Upper tube, 32 mm Ø in fibreglass composite on polyurethane foam, quality to IEC60855, yellow
Lower tube, 39 mm Ø in fibreglass composite, quality to IEC61235, yellow
Operating current: 25 to 63 kV
Test voltage on 300 mm: 100 kV (upper tube) / 50 kV (lower tube)
Folded length: 0.85m
Extended length: 1.50m
Weight: 1.050 kg
- TDP536: Voltage Absence Detector stick with air gap arresters
Voltage Range: 5 to 45 Kv
Warning light
Integrated self-testing function, operation without battery
Fitted with straight 41811B antenna
Length x diameter: 200 mm x Ø 49 mm
Weight: 300 g

Réf.	Weight (g)	Version	Detector	Stick	Length
TP13T	1350	Telescopic 5-36 kv	TDP536	TR245 U end fitting	0.85/1.50 m

- Multi-section sticks -



PH2 - Extendable insulated sticks of Ø 32 mm

Standard : Tubes to standard IEC60855

Use : ALL WEATHER USE: All our insulated foam based tubes comply with standard IEC60855 and provide superior insulation performances in all weather conditions, due to the high level of resistance of their tubing to water penetration.

In order to guarantee the durability of these tubes, it is advisable to clean the external surface regularly with a silicone-coated cloth (ref. TC53). In situations where there is heavy precipitation, a siliconed surface will provide better protection than skirts. However, certain sticks may be fitted with reduced skirts for better mechanical protection when falling to the ground.

Class PH insulated sticks have been designed to cover the large majority of operations required for working with electricity.

Specification: all their components are insulated and have a high level of mechanical resistance:

- Ø 32 mm to 39 mm tubes to standard IEC60855 on foam,
- hexagonal 21mm screwed joints in composite material with extremely high mechanical resistance.

& Specify AN, APV, B, CL, EAF, HE or U end fitting.

Réf.	Length (m)	Type
PH2J2200...	2.00	
PH2J2240...	2.40	
PH2J2300...	3.00	
PH2J2400...	4.00	
PH2J3300...	3.00	
PH2J3360...	3.60	
PH2J3450...	4.50	
PH2J3600...	6.00	
H2JB100	1.00	Handles
H2JB120	1.20	Handles
H2JB150	1.50	Handles
H2JB200	2.00	Handles
H2JB250	2.50	Handles
H2JI100	1.00	Extensions
H2JI120	1.20	Extensions
H2JI150	1.50	Extensions
H2JI200	2.00	Extensions
H2JI250	2.50	Extensions
H2JT100...	1.00	
H2JT120...	1.20	
H2JT150...	1.50	
H2JT200...	2.00	
H2JT250...	2.50	



■ TP13P - TP13T

➔ Voltage Detector Stick with air gap arrester for indoor use



▶ STANDARD(S)

IEC 61235 / IEC 60855-1

▶ USE

Stick for detecting the absence of voltage before earthing a line or a transformer to carry out work in MV substations or cells.

The detector's battery-free operation and built-in self-test make it possible, in indoor substations, to have a testing device that is always ready for use.

▶ SPECIFICATIONS

TP13PM:

1 section insulating stick with a universal end fitting

Fibreglass composite tube, diameter 32 mm.

Operating voltage: 5 to 45 kV.

Test voltage on 300 mm: 50 kV.

Overall length: 1,17 m.

Weight: 500 g.

TR245U :

Telescopic insulating stick with a universal end fitting

Polyurethane foam-filled fibreglass composite upper tube, Ø 32 mm.

Fibreglass composite lower tube, Ø 39 mm.

Operating voltage: 25 to 63 kV kV.

Test voltage on 300 mm: 100 kV (upper section) / 50 kV (lower section).

Folded length: 0,85 m.

Extended length: 1,50 m.

Weight: 1,050 kg.

TDP536 : See next product description.



TECHNICAL SHEET

Reference	Description	Detector	Stick	Length (m)	Weight (g)
TP13T	Insulating telescopic stick 5-36 kV	TDP536	TR245U	0,85/1,50	1350
TP13P	1 element insulating stick range 5 to 36 kV 5-36 kV	TDP536	TP13 PM	1,17	800

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■ TR - TRL - TRC

➔ Telescopic sticks



▶ STANDARD(S)

IEC 60855-1 / IEC 61235-S

▶ USE

All-weather (last IEC 60855-1 tube extended).

- Checking for the absence of voltage.
- Earthing of MV/LV substations
- Disconnecter operation.
- All work involving medium mechanical loads.

The TR poles come in 4 ranges:

- TR: Classic
- TRS: Special - foam-filled tube, orange end section, Ø 32 mm, quality IEC 60855-1
- TRL: Lightweight - foam-filled tube, yellow end section, Ø 26 mm, 30% lighter than the TR Classic (NB: medium load acceptable up to 5 m, beyond that use only for no-voltage testing and disconnecter operation)
- TRC: Shock-resistant: tubes with greater shock-resistance properties.

▶ SPECIFICATIONS

- Made up of 2, 3 or 4 sections:
 - upper tube foam-filled fibreglass composite, Ø 32 mm or Ø 26 mm, quality IEC 60855-1, colour yellow or orange,
 - intermediate and lower tubes made of yellow fibreglass composite, Ø 48, 39 or 32 mm, quality IEC 61235-S,
- Push-button mechanism for locking into retracted or extended position,
- Base with protected connector for optional extension (on some TR2 models, see table of references).
- Dielectric strength after wet conditioning:
 - 100 kV/30 cm upper sections
 - 50 kV/30cm lower sections

TR poles can be supplied off the shelf with these end fittings :

- APV : multi-purpose, 12 mm 6-sided with automatic locking.
- U : notched universal end fitting.
- B : bayonet end fitting.
- EAF : multi-purpose, 21 mm 6-sided.
- Others : on request, please enquire

EXTENSION AVAILABLE FOR STICKS TR275 / TRS275 / TR2225 / TR2245 / TR2330.



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Insulating sticks for earthing devices

- Purpose-Designed for Heavy Loads -



LP9054 - Stick Lifter

Use : For lifting very long sticks, bearing on metallic structures

Tightening clamp with 33 mm capacity.

Effective diameter: 50 mm.

Length: 200 mm.

Weight: 1.3 kg.

- Multi-section sticks -



PXV - Insulating Sticks in Ø 32 mm tubing

Standard : IEC 60855

Use : All Weather Use.

• Voltage Absence Detection.

• Earthing in MV/LV stations.

• Operation of switches.

• All operations not involving heavy mechanical loads.

Consisting of 1, 2 or 3 parts with:

• Screw-on connection, Ø 32 mm;

• Tube of IEC 60855 quality, 100 KV, 30 cm after wet treatment

The standard PXV sticks are supplied off the shelf with

- U end fitting (universal splined end fitting) or

- APV end fitting (multipurpose, 6 x 12 mm splines, with automatic locking device) or

- B bayonet fitting

To be specified when ordering

Réf.	total length in m	Number of sections	Weight in kg	Soft case
PXV1125	1.25	1	0.9	H10
PXV1150	1.5	1	1	H10
PXV1200	2	1	1.4	H11
PXV1300	2.5	1	1.6	HTR12750
PXV1300	3	1	2	H12
PXV2200	2	2	1.5	H30a
PXV2300	3	2	2.1	H31a
PXV2400	4	2	2.6	H32a
PXV2500	5	2	3.3	H20
PXV2600	6	2	4.1	H21
PXV3300	3	3	2.15	H30a
PXV3450	4.5	3	2.9	H31a
PXV3600	6	3	4.3	H32a



PH2 - Extendable insulating sticks of Ø 32 mm

Standard : Tubing to standard IEC60855

Class PH insulating sticks are designed to cover most manoeuvring requirements in electrical work.

They are composed entirely of insulated components with high mechanical resistance:

- Tubing to IEC60855 stand, of 32 mm and 39 mm Ø on foam,

- Screw-on 21mm hexagonal connections in composite with extremely high mechanical resistance.

& Specify AN, APV, B, CL, EAF, HE or U end fittings with order.

Réf.	Length (m)	Type
PH2J2200...	2.00	
PH2J2240...	2.40	
PH2J2300...	3.00	
PH2J2400...	4.00	
PH2J3300...	3.00	
PH2J3360...	3.60	
PH2J3450...	4.50	
PH2J3600...	6.00	

Réf.	Length (m)	Type
H2JB100	1.00	Handles
H2JB120	1.20	Handles
H2JB150	1.50	Handles
H2JB200	2.00	Handles
H2JB250	2.50	Handles
H2JI100	1.00	Extensions
H2JI120	1.20	Extensions
H2JI150	1.50	Extensions

Réf.	Length (m)	Type
H2JI200	2.00	Extensions
H2JI250	2.50	Extensions
H2JT100...	1.00	
H2JT120...	1.20	
H2JT150...	1.50	
H2JT200...	2.00	
H2JT250...	2.50	

HV – ELECTRONIC VOLTAGE DETECTOR 5-35 KV

Threshold LEDs

Test button

Self test OK

Threshold LED

(LEDs flashing=line energized)

Battery



ELECTRONIC VOLTAGE DETECTOR model TAG 200 is designed to check whether an electrical installation is live or dead up and 69 KV (depending on adjustment request from customer)
Made out of robust injected polycarbonate housing

- Voltage range 5-35 kV – 50 Hz
- Universal “U” fitting system (to adapt on insulating stick with universal endpiece)
- Accoustic and red flashing visual signal if tension is detected
- Green steady visual signal if no tension
- Accoustic signal 66 to 74 dB at 4 meter distance and >60 dB at 2 meter
- Visual light signal can be seen at a distance > 10 meter
- Power supply with 9 volts alkaline battery type 6LR61
- Electronic cut-off as soon as the voltage is lower than 8 volts
- Built-in self checking device to test all the circuits and the stability of the threshold voltage – after test, green light is “ON” if unit is ready for use
- Humidity 85-100 % at 25 °C
- Working temperature : - 25 °C to + 55 °C
- Can be used under all weather conditions

Accessories delivered with :

- One Y shaped antenna V 40 mm
- One straight antenna 40 mm length
- One metal box

(Option : One soft carrying bag ref. SBH 1000)

SBH 1000



Comply with IEC61243-edition1 International Standard and Electricity of France agreement

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