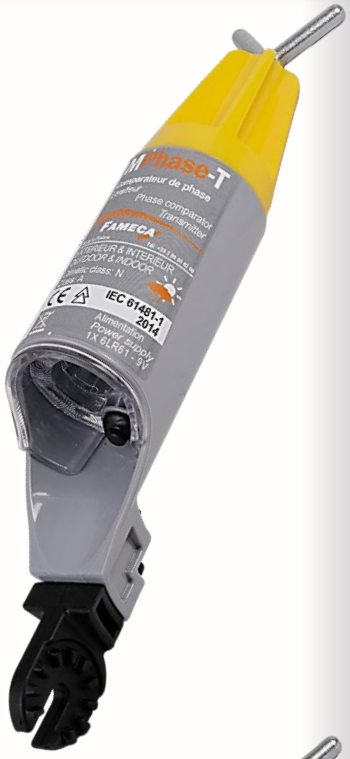
MPHASE – 1-69 kV

Wireless phase comparator

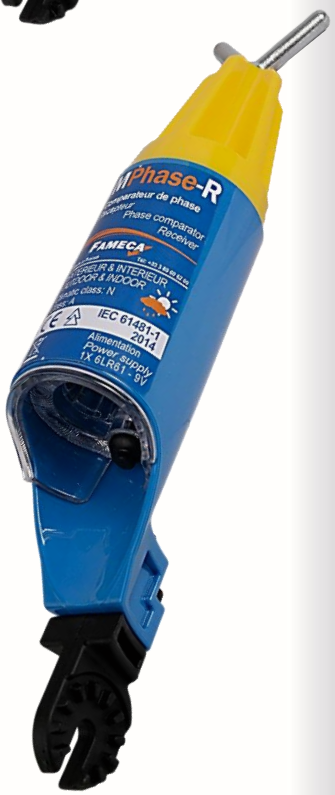


STANDARD

IEC 61481-1 (2014) Live working – Phase comparators -
Part 1: Capacitive type to be used for voltages exceeding 1 kV a.c.
CE : Compliance with European directives.

USE

- MPHASE is designed to carry out phase comparison between two MV circuits of a Three Phase system before connection.
- Each units of the set can be used for checking Voltage Presence



ADVANTAGES

- Light and compact unit that can be used safely for outdoor (overhead lines) and indoor (substations) operations.
- Positive indication for ‘’in phase’’ conditions
- Voltage presence indication
- Indication of active radio link between the 2 units

The wireless concept provides:
- Better safety by suppression of cable link hazard
- Better distance range between test points (more than 25m)
- Possibility of phasing through walls (for instance between substation bus bars and overhead cable terminals)

Enhanced indication that can be clearly noticed in most working conditions:

- The visual indication is visible in all usual working environments, from sunlight to fog, with a wide angle of visibility and from the side thanks to an optic ring.

- The 100 dB (1m) sound signal is designed to remains audible even in heavy traffic or strong wind, thanks to its acoustic “horn”.

Thanks to the direct access to the battery and sealed electronics compartment, the battery replacement will prevent from :

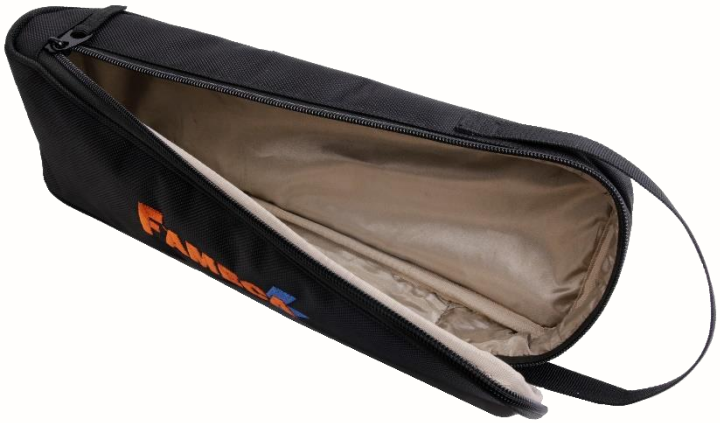
- Accidental interchange of housing or circuitry,
- Damage to electronic circuits,
- Humidity ingress into the device when the battery is replaced outdoors.

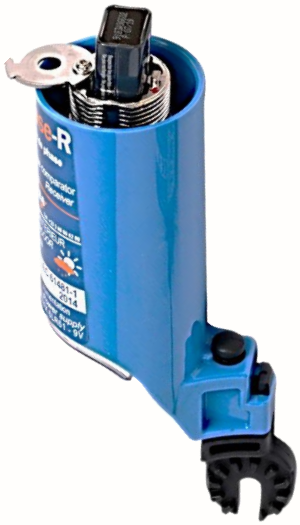
TECHNICAL SPECIFICATIONS

AC voltage range: 1 to 69 kV

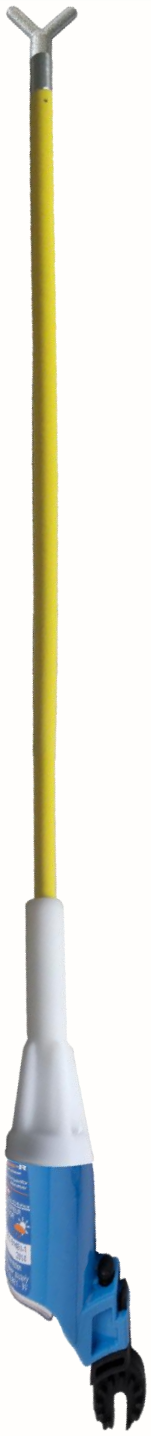
Network frequency: 50 and 60 Hz

- Permanent standby status with *automatic wake-up function*
- **Transmitter (T)** : grey housing
  The presence of voltage is indicated by an intermittent ***RED*** light and a beeping sound then transmits phase information to the receiver.
- **Receiver (R) : blue housing**
  The presence of voltage is indicated by intermittent ***RED*** lights (2LED) and a beeping sound, and phase concordance is indicated by **solid *RED*** lights (4 LED) and a steady sound
- Indication of the radio link by a ***BLUE*** light indication
- HF radio transmission operating at 433.9 MHz
- Minimum distance range in open air 25 m
- Self test checking all measuring circuits, phasing functions, radio link and battery level
- A low battery level is indicated by an ***ORANGE*** light
- Designed for outdoor and indoor use
- Operating temperature: -25 ° C to +55 ° C
- Humidity: 96 % max.
- Power supply voltage: 9 V alkaline cell – IEC 6LR61 (1 by module)
- Accepts the use of rechargeable battery with identical supply voltage
- Polycarbonate housing
- Dimensions of each module : Ø 59 mm, L = 280 mm without the Y contact electrode nor electrode extension
- Net weight of each module: 0.390 kg with stick adaptor
- Operating manual with a choice of languages, depending on the package.





Version with electrode extension



USE

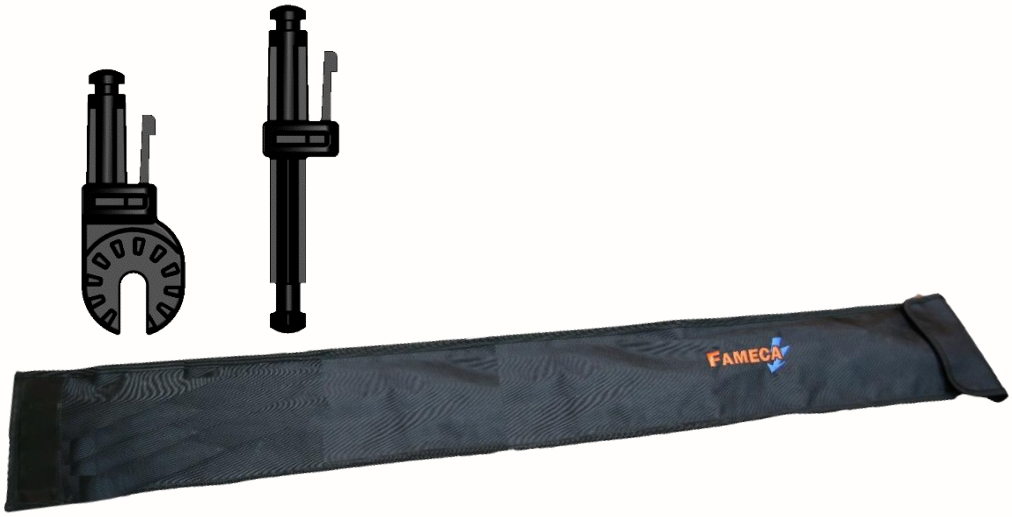
- Electrode extension for testing through access holes
- Indoor and outdoor use

ADVANTAGES

- Allows access to live phases without opening the cubicle substation.
- Minimum insertion diameter of 40 mm

TECHNICAL SPECIFICATIONS

- Voltage range : 1 – 36 kV max.
- Insertion depth : 260 mm, 400 mm, 600 mm and 900 mm
- Electrode : V56 fixed
- Sturdy insulated tube : Ø 15 mm



Reference	Voltage range	Frequency	Stick adaptor *	Contact electrode	User's Manual **	Packaging
MPHASE0169FHUA	1 – 69 kV	50 / 60 Hz	Universal & APV	V56	Pack F	Soft case with conductive lining for EMC protection
MPHASE0136FHUAANT260	1-36 kV			V56 Electrode extension 260mm ***		Soft case

* *Other stick adaptor available on required*

** *Pack F : FR/GB/DE/ES/PT/PL -- Pack G : GB/GR/NL/BG/IT/AR/TR*

*** *Other electrode extension length available 400, 600 and 900mm*