

## STUDY OF DIFFERENT LIGHTS WIRINGS



ref. QUICK-A

Supplied without frame - Frame on next page

QUICK-A is a set of modules (H-250mm) for studying the different types of wiring of lights. The modules are cabled using safety leads Ø4mm.

### EDUCATIONAL OBJECTIVES

- Study of house wiring diagrams.
- Study and operation of a single lighting circuit.
- Study and operation of a double lighting circuit.
- Study and operation of a two-way circuit.
- Study and operation of a remote control switch circuit
- Study and operation of a timer circuit.
- Study and operation of a dusk switch circuit.
- Study and operation of an energy meter.

### TEACHING RESOURCES STUDENT & TEACHER

### Proposed Practical Works

- Creation of house lights wiring diagrams.
- Creation of different light wiring such as single, double, two-way, timer, remote control, dusk switch.
- Creation of energy meter wiring.
- Creation of reading of light power consumption.

### Comprises

- 1 Module – Two pushbuttons
- 1 Module – Two-way switch
- 1 Module – Two single lighting switches
- 1 Module – Two double lighting switches
- 1 Module – Single phase energy meter 63A
- 1 Module – Circuit-breaker 1P+E 16A
- 1 Module – Residual current circuit-breaker 30mA
- 1 Module – Timer, coil 230VAC-50Hz
- 1 Module – Remote control switch, coil 230VAC-50Hz
- 1 Module – Dusk switch + photocell
- 1 Module – Analogue ammeter 2.5A and Analogue voltmeter 250VAC
- 4 Modules – Bulkhead lights 230VAC-40W
- 1 set of safety leads for carrying out the different practical works.

## Lights wirings - Autonomous sub-assemblies

On frame ref. SUP-AKR-6. Height 610mm – Width 590mm.

Each reference is delivered with a set of safety ropes to wire different modules.

General power supply with 230VAC 1.5m mains wires.



### Study a double lighting circuit with switches

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 switch modules
- 2 lighting modules with windows, 60W-230VAC.

ref. **QUICK-AK11 with frame**

ref. **QUICK-AK11-N without frame**

### Study a lighting circuit with a push-button and contactor

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 push-button modules.
- 1 contactor module, 230V.
- 2 lighting modules with windows, 60W-230VAC

ref. **QUICK-AK12 with frame**

ref. **QUICK-AK12-N without frame**



### Study a lighting circuit with back-and-forth switches

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 back-and-forth switch modules.
- 2 lighting modules with windows, 60W-230VAC

ref. **QUICK-AK13 with frame**

ref. **QUICK-AK13-N without frame**

### Study a lighting circuit with a timer-type staircase

- 1 230V power module on 4m terminals with a 16A magneto-thermal circuit breaker and viewing window.
- 2 push-button modules.
- 1 timer module, 230V, timer-type staircase.
- 1 lighting module with 1 window, 60W-230VAC.

ref. **QUICK-AK14 with frame**

ref. **QUICK-AK14-N without frame**





## Study a lighting circuit with a dusk-to-dawn switch

- 1 230V power module on 4m terminals with an MT16A circuit breaker and viewing window.
- 1 switch module.
- 1 dusk-to-dawn switch, 230V, with a sensor.
- 1 lighting module with 1 window, 60W-230VAC.

ref. **QUICK-AK15 with frame**

ref. **QUICK-AK15-N without frame**



## Study a two-roller shutter

- 1 230V power module on 4m terminals with an MT16A circuit breaker and viewing window.
- 2 switch modules for two-roller shutter control.
- 1 simulation module of two-roller shutter with elevate and descent viewing windows.

ref. **QUICK-AK16 with frame**

ref. **QUICK-AK16-N without frame**

## FRAMES FOR MODULAR SOLUTIONS

### FRAMES ON WHEELS



SUP-AKR-1



SUP-AKR-11



SUP-AKR-22-T

Réf.	SUP-AKR-1	SUP-AKR-1T	SUP-AKR-11	SUP-AKR-11T	SUP-AKR-2	SUP-AKR-2T	SUP-AKR-22	SUP-AKR-22T
Simple face	yes	yes	no	no	yes	yes	no	no
Double face	no	no	yes	yes	no	no	yes	yes
Height	1610mm	1610mm	1610mm	1610mm	2000mm	2000mm	2000mm	2000mm
Width	940mm	940mm	940mm	940mm	1490mm	1490mm	1490mm	1490mm
Depth	500mm	500mm	500mm	700mm	750mm	750mm	750mm	900mm
Number of modules max (L166mm x H250mm)	20	20	2 x 20	2 x 20	40	40	2 x 40	2 x 40
Rack for leads (30 fingers)	1	1	2	2	1	1	2	2
Shelf 19mm	0	1	0	2	0	1	0	2

### FRAMES ON TABLE



ref. SUP-AK-6

**PERFECT FOR SOLUTIONS WITH 6 MODULES MAXIMUM**

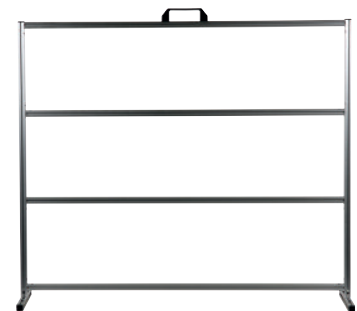
- Dimensions H 610mm x W 590mm x D 310mm
- Takes 6 modules (W-166mm x H-250mm)



ref. SUP-AK-9

**PERFECT FOR SOLUTIONS WITH 9 MODULES MAXIMUM**

- Dimensions H 880mm x W 590mm x D 310mm
- Takes 9 modules (W-166mm x H-250mm)



ref. SUP-AK-15

**PERFECT FOR SOLUTIONS WITH 15 MODULES MAXIMUM**

- Dimensions H 880mm x W 1040mm x D 380mm
- Takes 15 modules (W-166mm x H-250mm)

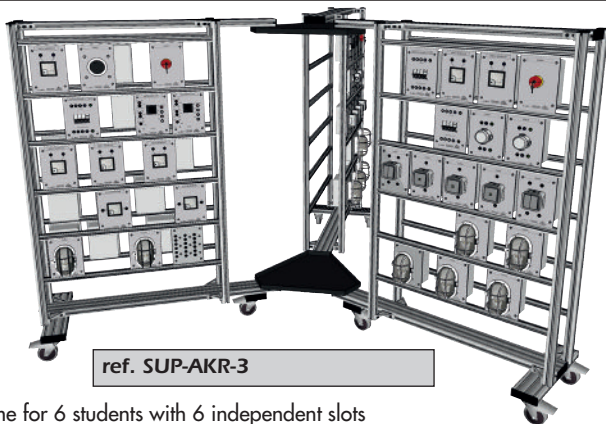
## FRAME TO BE FIXED ON TABLE



ref. SUP-AK-20

- Frame with clamps, mobile and easy to store.
- Attaches to any support up to 60mm thick.
- Dimensions: H-1360mm x W-1440mm x D-500mm
- Takes to 20 modules (W-166mm x H-250mm)

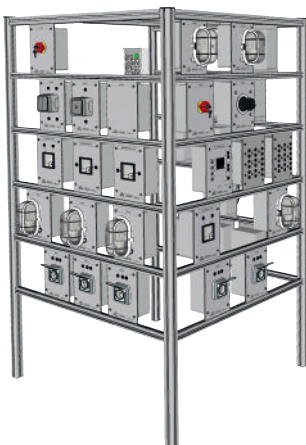
## FOLDING FRAME - 6 SIDES



ref. SUP-AKR-3

- Frame for 6 students with 6 independent slots  
Easily foldable at the end of use. Mounted on 9 wheels (6 with brakes).
- Dimensions: Unfolded: Ø3000mm Height 1810mm  
Ground clearance folded: 1850 x 1080mm
- Takes to 25 modules per side (W-166mm x H-250mm)

## FRAME 3 SIDES



- Frame 3 sides
- Dimensions  
H-1800mm x W-990mm x D-990mm
- Takes to 23 modules per face  
(W-166mm x H-250mm)

ref. SUP-AKC-60

## POWER CONSOLES FOR FRAMES



## OPTIONS FOR FRAMES

### SCREEN/KEYBOARD SUPPORT

- Screen support arm
- 3 rotation points on 2 ball joints
- Supports one screen up to 12kg
- With shelf for keyboard and mouse

ref. QUICK-ECRAN



### CENTRAL UNIT SUPPORT

- Wire mesh 45x45mm
- Cabling space to rear
- Epoxy paint
- Dimensions: 400x400x195mm

ref. QUICK-UC



### WIRING GRID

Equipped with:

- 1 Omega rail 300mm
- 1 set of 20 terminals 6mm<sup>2</sup>
- 1 box equipped with 20 safety terminals Ø4mm
- Dimensions 500x350mm

The grid can be removed instantly without tools.

ref. QUICK-GRIL



### GUIDE RAILS

- Rails for rotating machines.
- The distance between the rails can be adjusted from 70 to 380mm
- Dimension: Length 900mm
- Supplied with sliding nuts.

ref. QUICK-RGA

