



**PROTEK**

# Auto-Changeover Panels

## General Description

Auto-Changeover panels are used when essential wherever power has to be maintained. There are many instances when this is necessary. To ensure people's safety at work or in public spaces, maintain essential supplies to a vital process or hospitals/medical centres. A fast and efficient transfer of power from the main source to a secondary source is vital. This is where Protek's range of auto-changeover panels come into their own.

Protek offers two types of auto-changeover panels mains/mains where two mains supplies are available or mains/generator where the secondary supply is provided by a generator. These units are available in both single phase or three phase and in the case of the generator unit a battery charge supply is available.



The three phase units are available in current ratings from 40A to 250A where as the single phase units are only available in 40A to 160A.

## Technical

Mechanically and electronically interlocked 3/4 pole AC1 rated contactors.

(AC1 - BS EN 60947-4-1)

'Zero volt' connection for remote generator start (N/O & N/C)

Auxiliary power supply for Generator battery charging, mains/generator only

Two position key switch for 'Automatic' and Generator 'Run'

Supply lamps for visual status indication.

All equipment housed in a sheet steel hinged lid enclosure.

## Enclosures

Sheet Steel enclosure

Standard colour is RAL 7035 Orange Peel

Internal galvanised mounting plate with 20/10 thickness on to which the assembly is mounted

Gland plates fitted top and bottom

Degree of protection IP65 to CEI EN 60529

Doors can be mounted so they open from either the left or the right. Our standard is opening from the right.



# Auto-Changeover Panels

## Connectivity

Connections	Single Phase	Protection	Three Phase	Protection
Input Mains 1	Three pole contactor - (Live and Neutral) Solid Earth	40A-160A Three pole contactor	Four pole contactor - (L1,L2, L3 and Neutral) Solid Earth	40A-250A Four pole contactor
Input Mains 2 or Generator	Three pole contactor - (Live and Neutral) Solid Earth	40A-160A Three pole contactor	Four pole contactor - (L1,L2,L3 and Neutral) Solid Earth	40A-250A Four pole contactor
Outgoing	Three pole contactor - (Live and Neutral) Solid Earth	40A-160A Three pole contactor	Four pole contactor - (L1,L2,L3 and Neutral) Solid Earth	40A-250A Four pole contactor
Auxiliary	*Double pole contactor 1 NO & 1 NC	*20A Double pole mcb	*Double pole contactor 1 NO & 1 NC	*20A Double pole mcb

*\*Mains generator combination only*

## Technical

### Mains to Mains

Product Code	Current Amps	No. of Poles	Dimensions (mm)
SCO0402AMM	40	2	500x400x200
SCO0602AMM	60	2	500x400x200
SCO0802AMM	80	2	600x400x200
SCO1002AMM	100	2	600x400x200
SCO1252AMM	125	2	600x400x200
SCO1602AMM	160	2	800x600x300

### Mains to Mains

Product Code	Current Amps	No. of Poles	Dimensions (mm)
SCO0404AMM	40	4	500x400x200
SCO0604AMM	60	4	500x400x200
SCO0804AMM	80	4	600x400x200
SCO1004AMM	100	4	600x400x200
SCO1254AMM	125	4	600x400x200
SCO1604AMM	160	4	800x600x300
SCO2004AMM	200	4	1000x600x300
SCO2504AMM	250	4	1200x800x300



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### Mains to Generator

Product Code	Current Amps	No. of Poles	Dimensions (mm)
SCO0402AMG	40	2	500x400x200
SCO0602AMG	60	2	500x400x200
SCO0802AMG	80	2	600x400x200
SCO1002AMG	100	2	600x400x200
SCO1252AMG	125	2	600x400x200
SCO1602AMG	160	2	800x600x300

### Mains to Generator

Product Code	Current	No. of Poles	Dimensions
SCO0404AMG	40	4	500x400x200
SCO0604AMG	60	4	500x400x200
SCO0804AMG	80	4	600x400x200
SCO1004AMG	100	4	600x400x200
SCO1254AMG	125	4	600x400x200
SCO1604AMG	160	4	800x600x300
SCO2004AMG	200	4	1000x600x300
SCO2504AMG	250	4	1200x800x300

### Enclosure

#### Technical characteristics

Conformity with the Standard CEI EN 62208, CEI EN 60439-1, IEC 61439-1-2

Degree of protection IP65 (CEI EN 60529)  
TYPE 12 (UL Standard)

Degree of mechanical strength IK10 blind door  
IK09 glazed door  
(IEC 62262)

Certifications   

Type of material Metallic

Installation site Indoors

Fixing method floor/wall

Normal service conditions

- ambient temperature from -5 to +40° C

Atmospheric conditions - relative humidity 50% at 40° C

90% at 20° C

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