



Masterseal Plus™ has been specifically developed for use in both outdoor and indoor environments, and where wiring devices and accessories would be at risk from dust and water.

With a rating of IP66, Masterseal Plus™ offers total protection against dust, and is protected against high pressure jets of water from any direction.

An improved catch eases the opening and closing of the lid, whilst ensuring the integrity of the seal. The seal is fixed to the mounting frame of the product, enabling rapid installation, and removing the risk of error when placing a floating gasket.

Masterseal Plus™ is perfectly suited to a range of indoor and outdoor applications including factories, laboratories, swimming pools, commercial kitchens, industrial units, warehouses, clean rooms and more.



## Masterseal Plus Features

*The Masterseal range has been specifically designed for use outdoors and indoors and in areas heavily exposed to dust and splashing water.*

### IP66

Masterseal Plus offers total dust ingress protection and is protected against high pressure water jets from any direction

### Robust Construction and Temperature tolerant

Masterseal Plus will not discolor, crack or fade in UV light and will maintain operation in extremes of heat and cold

### Impact Protection

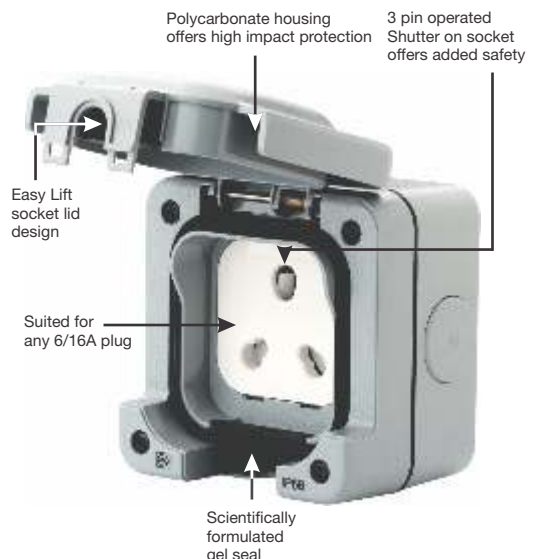
Masterseal Plus enclosures are made from recycled polycarbonate one of the toughest thermoplastics available – incidentally also used in products such as motorcycles helmets.

### 20 Year Guarantee

Masterseal Plus is guaranteed for an industry-leading 20 years

### Why Polycarbonate?

The Masterseal range is made with Polycarbonate, one of the toughest thermoplastics available today so tough and durable that it's used in motorcycle helmets and car bumpers. It will not discolour, crack or fade in UV light (unlike many other plastics). It has better resistance to chemicals than many other plastics and will maintain its high resistance to impact in extremes of heat and cold.



## IP66 Enclosures

List Number  
K56400 GRY



Description  
10 AMP SP 1  
gang one way

List Number  
K56401 GRY



Description  
10 AMP SP 1  
gang two way

List Number  
K56402 GRY



Description  
10 AMP SP 2  
gang one way

List Number  
K56407 GRY



Description  
10 AMP SP 1  
gang two way  
"Bell Push"

List Number  
K56409 GRY



Description  
20 AMP DP 1  
gang one way  
'Press'

## Sockets

List Number  
86893 TCGRY<sup>#</sup>



Description  
16AMP  
Switched Socket  
IP66 enclosure

List Number  
86893 GRY



Description  
16AMP  
Switched Socket  
IP66 enclosure

List Number  
56416 GRY<sup>\*</sup>



Description  
6/16AMP  
3 Pin Socket  
\*IP56 rating

## Junction Box

List Number  
K56506 GRY



Description  
Junction box with  
four 4 - way terminals

## Flush Mounting Bezel

List Number  
K56502 GRY



Description  
1 gang plaster / tile  
flush mounting bezel  
for use with 56504

## 20A DP Enclosure<sup>#</sup>

List Number  
56896 BLK



Description  
20A DP 1 way  
(Snap fit)

List Number  
K56420 GRY



Description  
Switch enclosure  
for 56896BLK

56896BLK and K56420GRY should be assembled  
to get Ingress Protected 20A DP enclosure

## Flush Mounting Frame

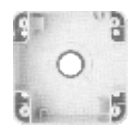
List Number  
56500 GRY



Description  
1 gang plaster / tile  
flush mounting frame  
with protective cover for  
95 x 95 mm products

## Rear Entry Back Box

List Number  
56504 GRY



Description  
1 gang box rear  
conduit entry

## Conduit Entries

List Number  
56461 BLK



Description  
PVC cable entry to  
provide direct entry of  
power cable to the unit  
via the bottom box entry

List Number  
56462 BLK



Description  
20mm plain conduit entry  
push fit adaptor between  
back box and 20mm  
plain conduit

List Number  
56463 BLK



Description  
20mm threaded conduit entry  
push fit adaptor between  
back box and 20mm  
threaded conduit

List Number  
56464 BLK



Description  
Box coupler for  
ganging one Masterseal  
box next to another

## Switches

### Technical specifications

#### Electrical

Voltage rating: 250V a.c, 50 Hz

Current Rating: 10 or 20 amps- no derating when used on fluorescent or inductive loads.

Load Type: No Restriction

#### Physical

Ambient operating temperature: -0°C to + 40°C

IP Rating: IP66

Max. Installation Altitude: 2000 Meters

### Standards and approvals

Switches and enclosures comply with BS EN 60669-1:2000 and are IP66 for BS EN 60529: 1992

20A Switch module complies with BS 3676: Part 1: 1989

10A switch module complies with BS EN 60669-1: 2000

All products comply with or allow compliance with the 16th Edition of the IEE Wiring Regulations (BS 7671)

### Description

A range of switches and enclosures specifically designed for outdoor use or in areas heavily exposed to dust and/or splashing water. Constructed from extremely robust polycarbonate, the range is sealed to IP66 against dust, water and is impact resistant. Masterseal is easy to install and the large rocker switches and clip in moulds make it easy to use and operate.

## Socket Outlets

### Technical specifications

#### Electrical

Voltage rating: 250V a.c

Current Rating: 6/16A per socket outlet

Terminal Capacity: Live, neutral & earth

3x 2.5 mm<sup>2</sup>

3 x 4 mm<sup>2</sup>

2 x 6 mm<sup>2</sup> (standard)

#### Physical

Ambient operating temperature:

-0°C to + 40°C

IP Rating: IP56

Max. Installation Altitude: 2000 Meters

### Standards and approvals

Socket outlets comply with IS 1293: 88

All products allow compliance with the 16th edition of the IEE Wiring Regulations (BS 7671) when correctly installed.

### Description

Socket outlets are specifically designed for outdoor use or in areas heavily exposed to dust and/or splashing water. Constructed from extremely robust polycarbonate, the range is sealed to IP56 against the dust, water and is impact resistant and will take in any 6/16A plug\* allowing safe connection to any appliance.

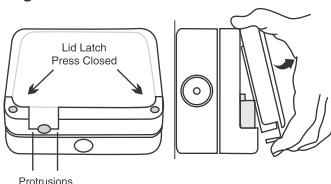
### Operation

1. To maintain the IP rating of the product with a plug in position, the lid must be closed and latched with the cable held in position within the cable seal.
2. The product will accept majority of 6/16A plugs.
3. The cable seal will remain effective at temperature below zero provided a plug is not installed or removed at these temperatures.

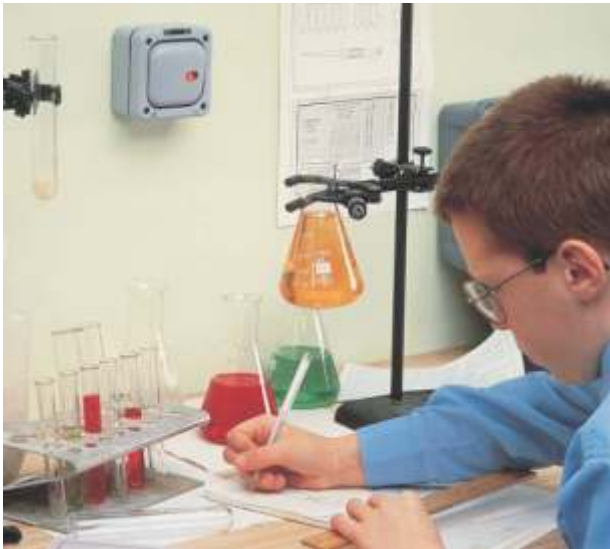
### Masterseal plug insertion procedure

1. To open the socket lid, press the protrusions on the bottom of the lid and lift lid, exposing the socket (see Fig. 1)
2. Insert plug as required and close lid, pressing until both the cable outlet latch, and lid latch on the right hand side, are engaged

Figure 1



## Surface mounting for rear entry



This option is for use in 'tamperproof' environments e.g. schools and public areas.

For this application the cable or conduit enters Masterseal enclosure from the rear only (there are no side entries).



## Surface mounting for side entry conduit



The basic Masterseal unit comes complete with a standard surface mounting back box. This enables top, bottom or side entry for the cable or conduit.





## Flush mounting for plaster/tiled walls



Ideal for environments where hygiene is paramount, for example, hospitals and kitchens.

The Flush Mounting Frame is provided with spacers which are used to adjust the height of the box depending upon the depth of plaster, tiling or rendering to be applied to the mounting surface.



## Flush mounting for any finished surface



The bezel provides an alternative method of flush mounting in areas where hygiene is important e.g. food preparation areas.

This bezel can be used on any finished surface e.g. brick or cavity walls. The bezel should be used in conjunction with the rear entry back box.





## Polycarbonate Chemical Resistance Table

Reagent	Concentration	Resistance
Acetic Acid, aqueous	40	■
Acetic Acid, aqueous	5	▲
Acetone		■
Ammonia, aqueous	10	■
Benzene		■
Beverages, alcoholic		▲
Bitumen		Not tested
Bleaching lye, aqueous		■
Boric Acid	10	▲
Butanol		■
Butter		●
Butyric acid		■
Calcium chloride, aqueous	10	▲
Carbon tetrachloride		■
Chlorine gas		●
Chlorine, aqueous solution		■
Chloroform		■
Citric acid, aqueous	10	▲
Coconut oil		▲
Diesel fuel		●
Edible fats		▲
Edible oils		▲
Ethanol	96	▲
Ethylene acetate		■
Ethylene ether		■
Formaldehyde, aqueous	30	▲
Formic acid, aqueous	40	●
Frigen, liquid		Not tested
Fruit juices		▲
Fuel oil (heating)		●
Gas liquor		Not tested
Glycerine		▲
Glycol		▲
Glystantine, aqueous	40	Not tested
Hexane		▲
Hydrochloric acid, aqueous	2	■
Hydrofluoric acid, aqueous	40	▲
Hydrogen peroxide, aqueous	10	▲
Ink		▲
Iodine tincture, alcoholic		■

### Key:

▲ Resistant

● Limited resistance

■ Not resistant

Reagent	Concentration	Resistance
Kerosene		■
Lactic acid, aqueous	10	▲
Lavender oil		Not tested
Linseed oil		Not tested
Machine oils		▲
Mercury		▲
Methanol		■
Methylene chloride		■
Milk		▲
Mineral oils		▲
Nitric acid, aqueous	2	▲
Oleic acid		▲
Ozone		▲
Paraffin oil		▲
Peppermint oil		Not tested
Perfumes		■
Petrol (gasoline)		●
Phenol, aqueous		■
Phosphoric acid, aqueous	10	■
Potassium hydroxide solution, aqueous	5	■
Potassium hydroxide solution, aqueous	50	■
Rose oil		●
Salt solution, household, aqueous	10	▲
Silicon oils		▲
Soap solution, aqueous		▲
Soda solution, aqueous	10	▲
Sodium hydroxide solution, aqueous	10	■
Sodium, aqueous	10	Not tested
Sulphur		▲
Sulphuric acid, aqueous	10	▲
Tallow		▲
Tar		▲
Tetrachloroethene		■
Toluene		■
Trichlorethane		■
Vaseline		▲
Water		▲
Water, hot (80°C)		●
Wax, melted		Not tested
Xylene		■