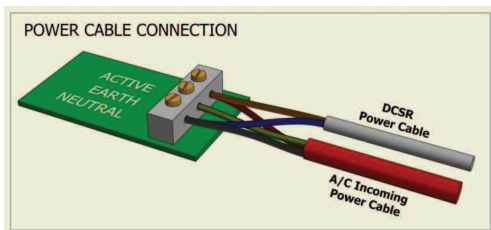


## POWER CABLE WIRING DIAGRAM

The TMAC DCSR POWER CABLE supplies mains power to the TMAC DCSR. The POWER CABLE should be connected to the incoming mains supply for the air conditioner. Generally it is piggy-backed into the mains supply terminals as shown below.

If the supply cord is damaged, it shall be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid a hazard.



## REPAIR

The end user must not repair or modify any component associated with this device without written permission from TMAC.

If repair is required contact TMAC.

### TMAC

45 Enterprise St  
 Cleveland, QLD 4163 Australia  
 Tel: (+61) 07 3826 6000 <http://www.tmacgroup.com.au/>

## DEFECTS / WARRANTY

### DEFECTS

Goods are warranted to be free from defects. Provided they have been used strictly as recommended and subjected only to fair wear and tear. Goods (including parts within) which are found to be defective within 90 days after delivery to the Buyer will be repaired or replaced at the option of the Seller and at its expense. Repair or replacement by the Seller is the exclusive remedies of the Buyer.

### WARRANTY

To the maximum extent permitted by law, the Seller makes no warranties, either express or implied, as to merchantability, fitness for purpose or otherwise with respect to the Goods other than in paragraph above and as required by statute. The Seller is not liable for any prospective profits or special, indirect or consequential damages or any general loss or damage, or for any expense resulting from use by the Buyer or others of defective Goods. The Seller's liability is limited to no more than the sale price of the Goods plus replacement delivery charges. Prior authority for the return of goods is required by the seller.

Please contact the seller by email [sales@tmacgroup.com.au](mailto:sales@tmacgroup.com.au), phone 07 3826 6000 or fax 07 3826 6066 for claims related to defective / warranty of goods provided.

FOR THE FULL TERMS AND CONDITIONS PLEASE REFER TO TMAC "STANDARD TERMS OF TRADE".



# Demand Control Signal Receiver (DCSR) Installer's Manual



ACTIVE INNOVATION



## BEFORE YOU START

### GENERAL PRECAUTIONS

Read and understand this guide before operating this equipment.



The TMAC Demand Control Signal Receiver (DCSR) is to be used only by qualified personnel and must be used in conjunction with the user's own working and safety procedures, without compromising the integrity of the TMAC product supplied.

Follow all safety instructions contained within this guide.

### QUALIFIED PERSON

A qualified person is one who is familiar with the installation, construction, operation or maintenance of the equipment and the hazards involved. In addition this person is competent, trained and authorized to undertake the work involved in accordance with established safety and working procedures.

### SAFETY SYMBOLS USED IN THE GUIDE



**Mandatory Action** - This symbol indicates the action must be taken to avoid a hazard. Any information that follows this symbol must be obeyed to avoid possible harm.

## GENERAL INFORMATION

### DESCRIPTION

The DCSR receives AFLC (Audio Frequency Load Control) signals via the mains input from the electricity supplier (the same signal used to switch off-peak hot water systems) and allows the electricity distributor to control network peak demand by instructing the connected air conditioner to cap its electrical load.

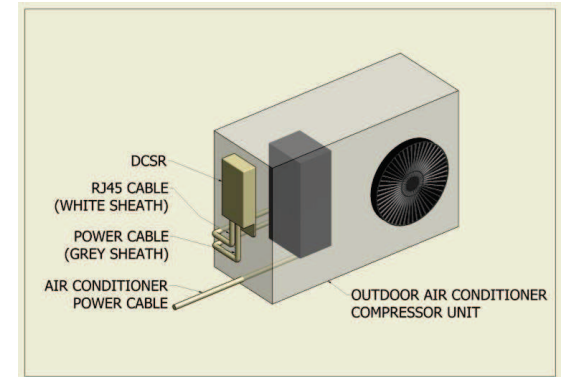
## INSTALLATION INSTRUCTIONS

- The Demand Control Signal Receiver (DCSR) is designed to be installed by a 'qualified person' i.e. an electrician, within, or adjacent to an existing air conditioning unit indoors or outdoors.
- The qualified person connects the DCSR's "POWER CABLE" in parallel with the air conditioner's mains supply. The DCSR's "CONTROL CABLE" is then installed and connected between the DCSR and the air conditioner's dedicated Demand Response Mode (DRM) connector. The DRM connector may be an RJ45 socket, or a set of screw terminals depending on the air conditioner model.
- For units fitted with screw terminals, an RJ45 to screw terminal adapter should be used.
- This appliance is intended to be installed in accordance with the wiring rules (AS/NZS 3000). The product is intended to be connected to the fixed wiring, and installed in a location where it is not likely to be subjected to mechanical damage.
- This product should be **MOUNTED VERTICALLY WITH THE CABLE ENTRY FACING DOWN** to prevent water ingress via the cable entry over a long period. The DCSR can be cable tied to existing supported wiring or screwed to a flat surface, it can also be mounted inside the air conditioning unit safely, near the control connections. The DCSR can be positioned behind existing air conditioning duct work, or in a wall cavity.
- A means for disconnection shall be incorporated in the fixed wiring according to the wiring rules.
- The TMAC DCSR is intended to be powered from a 240V domestic power circuit via the POWER CABLE (see the POWER CABLE wiring diagram).

- The internal components within the DCSR are factory set and should never be accessed.
- The wiring diagrams in this manual should be read and understood in conjunction with the air conditioner manufacturer's own documentation.

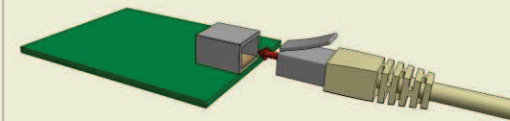
## WIRING OVERVIEW

The TMAC DCSR has two cables to connect, a POWER cable and a CONTROL CABLE. The power cable is used to supply mains power to the DCSR, while the control cable is connected to a special dedicated Demand Response Mode (DRM) connector on the air conditioner. Consult the installer's manual for the air conditioner to find the location of the DRM connector. It will either be located in the head unit or the compressor unit.



## CONTROL CABLE WIRING DIAGRAM

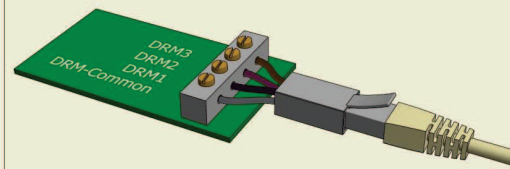
### OPTION A: RJ45 CONTROL CONNECTION



The TMAC DCSR CONTROL CABLE is connected to the dedicated DRM connector on the air conditioner. The connector will either be an RJ45 connector (OPTION A), or a set of screw terminals (OPTION B).

**NOTE: THE DRM CONNECTOR IS ALWAYS SEPARATE FROM THE POWER CABLE CONNECTIONS**

### OPTION B: SCREW TERMINAL CONTROL CONNECTION



The RJ45 Adapter Cable is used to connect the TMAC DCSR to air conditioners fitted with SCREW terminals as the DRM connection. The table below shows which coloured cable must be connected to each DRM terminal.

**NOTE: DO NOT CONNECT THE CONTROL CABLE TO THE POWER CABLE CONNECTIONS**

DRM Terminal	Cable Colour
DRM1	Purple
DRM2	Pink
DRM3	Orange
DRM-Common	Grey