

# Single Channel 10A Dimming/Switching Pack **PRO-DIM 10**



## Pro-Dim 10 Master with DMX inputs.

- Suitable for dimming control of incandescent, resistive, inductive/wound transformer loads, and most dimmable electronic transformers for low voltage or cold cathode lighting
- C10 circuit breaker overcurrent protection
- 60 mm slider level control (except on Slave versions)
- Selectable dimming or zero voltage switching operation
- +10 V reference voltage output for remote potentiometer connection
- Dual 0-10 V analogue inputs (highest takes precedence)
- Internal 0-25% preheat control
- Setting for use with electronic ballasts
- Recommended minimum load 100 W
- Selectable 1 second fade rate for soft start operation with large incandescents
- Suitable for wall mounting, pole mounting or free standing use
- Optional emergency lighting terminal
- Push button outstations available
- Optional DMX input on XLR and RJ45 with thumbwheel bcd address setting and selectable termination resistor
- Output connection options :-
  - Hardwired on internal screw terminals
  - 15 A output socket
  - CEE 17 output socket
  - Double Schuko socket
  - Double French socket
  - Two Danish sockets

The Pro-Dim 10 is a versatile single channel dimmer which can also be used for zero voltage switching of suitable loads. It features a slider level control (except on Slave version), two analogue inputs and optional DMX inputs. The unit can be used wall mounted, pole mounted or free standing and has a variety of output connection options as detailed overleaf.

### Supply connection

The Pro-Dim 10 requires earth, neutral and live connections for safe operation. Remove the knob from the slider control (on master versions), unscrew the four screws holding the lid in place and remove the lid to access input and output connections. The earth and neutral connections should be made to the earth and neutral common connection blocks at the front left side of the PCB. The live feed should be connected to the Live terminal marked IN >.

Output neutral and earth connections should also be made to the common neutral and earth terminals. The output dimmed live connection to the load should be connected to the live terminal marked < CH1

If the emergency lighting terminal option has been ordered, this live output will be on the terminal marked < CH2, with earth and neutral on the E & N connection blocks. This output will remain live whilst the pack is powered and the circuit breaker closed.

### Analogue input connections

There are two 0-10 V analogue input connections (input impedance > 40 kΩ) on the screw terminal block to the right of the circuit breaker marked < 1 and < 2 respectively. The two analogue inputs are combined with the level of the slider control (and DMX input if present) so that the highest input level sets the output dimming level.

A reference 0 V and a +10 V 50 mA supply are also made available for connecting to external potentiometer controls or other control equipment such as Anytronics Pro-Dim outstations. A +22 V 100 mA supply is also available for powering lighting desks or similar external equipment. The 0 V and input connections of different packs can be connected together to provide control of multiple loads.

### DMX512 option

If fitted, this option will allow connection of DMX inputs via 3 or 5 pin XLRs or via a convenient RJ45 connector. The RJ45 connection also provides a +5 V supply to external equipment such as the Anyscene or AMD range of Anytronics DMX controls. The DMX address is set on the three bcd switches. An address of zero will disable the DMX input. Addresses between 512 and 799 are interpreted as address 512. Addresses above 799 will be ignored.

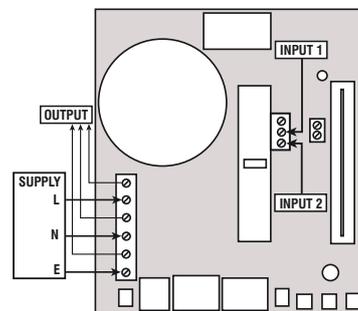
### DIL switch options

With DIL switch 1 OFF dimming operation is selected. With it ON the output will be zero voltage switched on and off as the inputs pass through the switching thresholds.

If problems are encountered when dimming loads connected via electronic transformers, switch DIL switch 2 to ON for better compatibility with this type of load.

For a smooth output response, the normal dimming response time with DIL switch 3 OFF is approximately 100 ms. By switching DIL switch 3 ON this response time can be extended to one second in order to diminish the thermal shock applied to large incandescent loads. Such loads should have a measure of preheat set as well, so that lamp filaments remain warm and in a high impedance state.

A DMX termination resistor can be switched in by setting DIL switch 4 to ON.



### Technical Specification

#### SUPPLY

Nominal 200-240 Vac, 50/60 Hz

#### OUTPUT CURRENT

Maximum current 10 A limited by C type circuit breaker  
Minimum recommended load 100 W  
Full load 10%-90% current risetime > 160 μs

#### FUSE PROTECTION

Electronics fuse (internal) 5 x 20 mm glass 100 mA Time Lag.

#### CONTROLS/INPUTS

60 mm metal shaft slider level control (except on slave versions)  
Dual analogue 0-10 Vdc control inputs, impedance > 40 kΩ  
Optional DMX input on XLR / RJ45

#### OPERATIONAL OPTIONS

1. Dimming or zero voltage switching
2. Electronic ballast dimming
3. Rate limiting for soft start operation

#### DIMENSIONS

190 mm x 174 mm x 75 mm

#### WEIGHT

1.7 kg net 2.2 kg gross

#### COMPLIANCE

Complies with relevant parts of current CE regulations  
for EMC: EN50081-1 emissions, EN50082-1 immunity  
LVD: EN60439 / EN60950

Specifications and designs are subject to change without any notice or obligation on the part of the manufacturer.  
© 2008 Anytronics Ltd.



#### Anytronics Limited

Units 5 & 6, Hillside Industrial Estate, London Road, Horndean, Hampshire, PO8 0BL  
Tel: +44 (0)23 9259 9410 Fax: +44 (0)23 9259 8723 sales@anytronics.com www.anytronics.com