delmatic metro twelve twelve module

The **twelve twelve** module provides flexible addressable control of single & three-phase lighting and power circuits.

The module accepts up to twelve incoming circuits and is equipped with twelve addressed relays providing individual switching and optional dimming of up to twelve 20A outputs. Each output may control lighting or power and any relay may be configured to operate as an emergency test output.

The **twelve twelve** module incorporates distributed intelligence, non-volatile memory (which stores operational parameters) and contains mechanically-latched relays which remain in their last state in the event of control failure: fascia override switches enable manual on/off override of each relay output.

The module comprises a fully-assembled unit: the robust enclosure contains a mother board with terminals for live, neutral & earth cables, bus & local switch connections, and accepting a plug-in intelligent Lon capsule (for seamless interoperability with other building services) and optional dimming capsule.

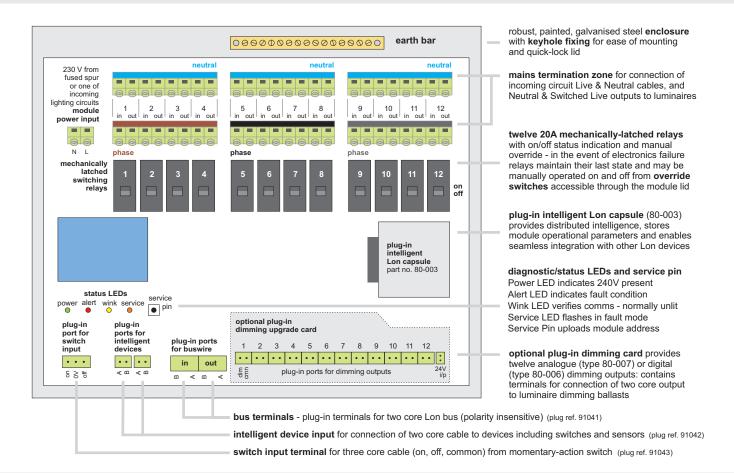


metro twelve twelve - switching product ref: 202A1

Provides twelve 20A switched outputs and contains port for dimming upgrade card.

- optional analogue upgrade card product ref: 80-007 provides 12 analogue 1-10V outputs each controlling up to 20 luminaires
- optional digital upgrade card product ref: 80-006 provides 12 DSI outputs each controlling up to 20 luminaires
- optional phase dimming pod product ref: 91024 provides phase dimming of 750W lighting load

module features



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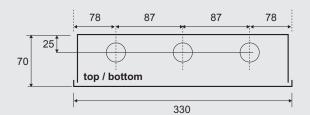
mounting, installation and dimensions

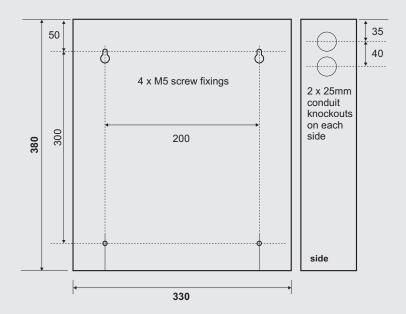
The module should be installed in an accessible location, ideally at a height of 1.5m from floor level.

The module is mounted using four M5 screw fixings: the top two holes use keyhole fixings for ease of installation. When mounting adjacent boxes leave 6mm fixing clearance.

All dimensions in millimetres.

Top/bottom sides contain 3 x 25mm conduit knockouts. Left/right sides contain 2 x 25mm conduit knockouts.





technical details

mains input

twelve 220-240V~50/60 Hz x 20 Amp single / three phase circuits - terminals accept 2 x 4 sq.mm cables

module power

module electronics powered from separate terminals: power may be taken from one of the incoming circuits

mains outputs

twelve individually addressed switched outputs via mechanically latched relay with status indication & manual override: loading per circuit 20A. terminals accept 2 x 4 sq.mm cables

dimming outputs

with upgrade card 80-007 twelve 0-10V dimming outputs linked to switching outputs - up to twenty analogue ballasts per output. plug-in screw-terminal ports accept max 1.5 sq.mm cable

with upgrade card 80-006 twelve Dali/DSI digital dimming outputs linked to switching outputs - up to twenty DSI digital ballasts per output. plug-in screw-terminal ports accept max 1.5 sq.mm cable

local switch inputs

- switch input: module accepts connection of one standard momentary-action switch.
- smart switch input: module accepts connection of up to twelve smart switches and sensors on common buscable.
- smart bus plug-in terminal block accepts max 1 sq.mm cable. smart bus cable maximum length 100m.

2 plug-in ports for two-core Lon bus connection - terminals accept 1.5 sq.mm cable.

buswire specification

330 V rms - twisted pair Belden 7701NH unshielded 22 AWG stranded 600 V rms - twisted pair Belcom 4001P22S54LSZH unshielded 22 AWG solid

dimensions (mm) 330 w x 380 h x 70 d

weight

4.4 kg

painted galvanised steel enclosure & lid to IP50 finished in RAL 7035 50% gloss

ambient temperature / relative humidity

0 to +50°C / 20% to 90% no condensation

Lon specifications

Echelon LonWorks FT 5000 Smart Transceiver FTX3 free topology communications transformer 64k EEPROM

Conforms to LonMark 3.4 guidelines and profiles 12 switch objects #3200

12 open loop actuator objects #0003

6 occupancy sensor objects #1060

6 occupancy controller objects #3071

1 light sensor object #1010

1 light controller object #3050

