MultiCube Quad Analogue Output Option Module
Addendum to Instructions
Meters with 24Vdc Aux Supply

General

MultiCubes manufactured with a dc Auxiliary Supply are unable to provide the power necessary to operate a Quad Analogue Output Option Module. A special variant of this Option Module has therefore been developed for this application – powered from an external 24Vdc supply.

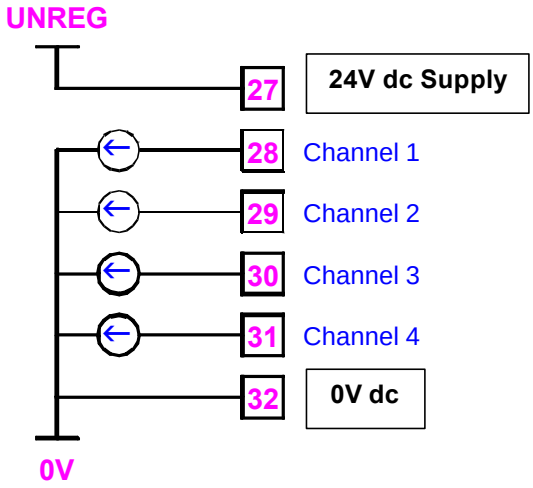
This variant can also be used with standard ***MultiCubes*** (with ac Auxiliary Supply) as long as the external dc supply is connected as described below.

The Analogue Outputs and the external dc supply necessary to power these outputs is fully isolated from both the measurement inputs to the meter and the dc Auxiliary Supply provided to the Meter itself.

Connection - Supply

An external 24Vdc supply is connected as follows:

+ 24Vdc	Terminal 27 (Unreg)
0Vdc	Terminal 32 (0V)



Connection - Outputs

The outputs are connected as follows:

Channel 1	Between Terminal 28 and Terminal 27
Channel 2	Between Terminal 29 and Terminal 27
Channel 3	Between Terminal 30 and Terminal 27
Channel 4	Between Terminal 31 and Terminal 27

Specification

As for the standard ***MultiCube*** Quad Analogue Output Option Module plus:

Isolation Level:	2.5kV 50/60Hz 1 minute: Between the Analogue Outputs and ***MultiCube*** measurement inputs Between the Analogue Outputs and ***MultiCube*** Auxiliary Supply
DC Supply:	24Vdc Nominal at 100mA 18Vdc Minimum 28Vdc Maximum
Output Load:	18Vdc 250Ω nominal, 500Ω maximum 24Vdc 600Ω nominal, 950Ω maximum

With a standard Quad Analogue Output Module, do **NOT** connect any DC supply between Terminal 27 and Terminal 32.
This can cause irreparable damage to the module.

Northern Design (Electronics) Ltd, Bolton Road, BRADFORD BD3 0QW, UK
Tel: +44 (0) 1274 750 620 Fax: +44 (0) 1274 721 074 E-mail: sales@ndmeter.co.uk www.ndmeter.co.uk