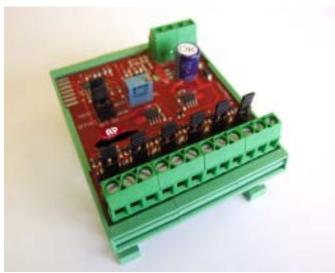


Six Channel Digital Input Multiplexer



MMP 6

Features

- **6 x Volt Free Contact Inputs**
- **Voltage and Current Outputs Variants**
- **Input Simulation**
- **Reverse action**
- **LED Input status Indication**
- **DIN Rail (TS35) Mounting**
- **High Quality Rising Clamp Terminals**
- Expands controller input capacity
- Operates from 24Vac/dc power supply

Technical Data

			• • • • • • • • • • • • • • • • • • • •	
Inputs	6 x Volt Free Contacts or 24Vac/dc input signals	The MMP 6 analogue o	multiplexes 6 VFC or 24ac/dc signals in utput.	
Output Voltage	0-10 Vdc át maximum load 10mA (2-10Vdc link selectable)		10Vdc or 4-20mA and 0-20mA output va aking the unit compatible with a large ra ment.	
Current	4 to 20ma (link selectable 0-10mA), max resistance of load 5000hm	The input registers as active when the contact is of Additionally, jumpers are fitted to allow each input		
LED Indication:	ON when Input is ON	mannually overriden for commissioning and testir purposes.		
Power Supply:	24Vac or dc (+/-15%) 40mA_max@24Vdc	The output sequence can also be reversed as re some types of controller and control strategies.		
Terminals:	Rising Clamp for 0.5-2.5mm ² Cable			
Ambient Temp Range	e: 0-50°C			
Dimensions:	75(w) x 68h) x 45mm	Ordering		
		MMP 6V	6 Digital Mulitplexer, Voltage output	
		MMP 6C	6 Digital Mulitplexer, Current output	

Product Overview

or 24ac/dc signals into a single

nd 0-20mA output variants are atible with a large range of

hen the contact is closed.

to allow each input to be issioning and testing

be reversed as required by ontrol strategies.



Installation

The MMP should be installed by a suitable qualified technician in conjuction with any guidelines for the equipment which it is to be connected to.

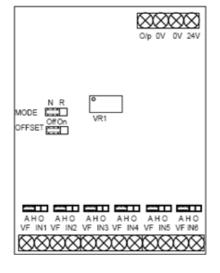
Field wiring should be installed to satisfy the requirements set out by the manufacturer of the equipment that the module is being connected to using screened cabled where necessary.

Please note that these MMP 6 modules are not suitable for use with mains voltage.

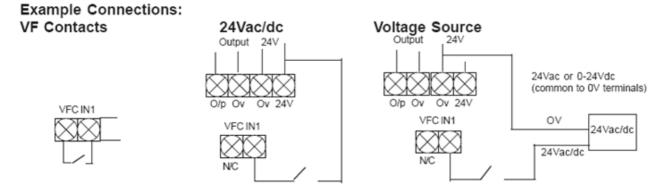
Connection

The diagram below shows the terminal designations for the MMP 6.

The digital terminals are for use with volt free contacts or 24'v signals or combination of either signals.



Jumpers				
Mode:	Normal or Reverse Action :			
		N =Normal		
		R = Reverse		
Offset:	Voltage versions			
		Off=0-10V		
		On=2-10V		
Current versions				
		Off=0-20mA		
		On=4-20mA		



Six Channel Digital Input Multiplexer

Commissioning and Testing

The module has six independant inputs giving a total number of 64 different outputs values.

The output value is calculated based on binary encoding method as shown in the table below.

Each input status has an output value associated with it.

The module output value is the sum of all these output values.

Outputs	Inl	In2	In3	In4	In5	Inó
0-10Vdc	0.15625	0.3125	0.625	1.25	2.5	5.0
2-10Vdc	0.125	0.25	0.5	1.0	2.0	4.0
For 2-10Vdc	outputs, it is nece	essary to add 2V to	o the total value.			
0-20mA	0.3125	0.625	1.25	2.5	5.0	10.0
4-20mA	0.25	0.5	1.0	2.0	4.0	8.0
F 4.00 4						

For 4-20mA outputs, it is necessary to add 4mA to the total value.

Outputs	Steps	Minimum	Maximum
0-10Vdc:	0.15625 Vdc	0 Vdc	9.84 Vdc
2-10Vdc:	0.125 Vdc	2 Vdc	9.87 Vdc
0-20mA:	0.3125 mA	0 mA	19.87 mA
4-20mA:	0.25 mA	4mA	19.75 mA

Examples:

0-10Vdc:	Inputs 1, 2 and 6 are ON.	=>	0.15625 + 0.3125 + 5	= 5.47 Vdc
2-10Vdc:	Inputs 1, 2 and 6 are ON.	=>	2V + 0.125 + 0.25 + 4.0	= 6.37 Vdc
0-20mA:	Inputs 1, 2 and 6 are ON	=>	0.3125+0.625+10	= 10.94 mA
4-20mA:	Inputs 1, 2 and 6 are ON	=>	4mA+0.25+0.5+8	= 12.75 mA

Factory settings:

The module is factory tested and set to normal mode. No offset for V and offset for I (0-10Vdc & 4-20mA)

Trend Scaling

Scaling Type - 5 Characterise Input 1 0 Output 1 2 Input 2 9.84 Output 2 254 Input type Voltage Upper Limit user defined Lower Limit user defined Points used 2