

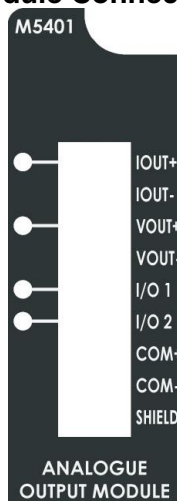


M5401 Analogue Module

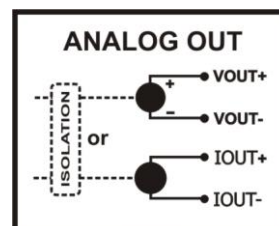
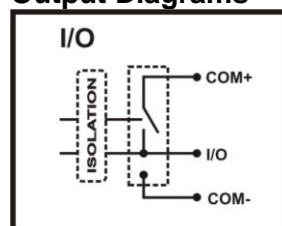
Module Description:

General	4-20mA or 0-10V isolated analogue output 2 x isolated digital I/O	
Isolation	Analogue: >500V from indicator to module I/O: >500V from indicator to module	
	Current	Voltage
Analogue Rated Load	600Ω maximum	2000Ω minimum
Analogue Range	0 to 24mA	-1.5 to 11.5VDC
Analogue Error	<0.1% overall	<0.2% overall
Analogue Update Rate	400Hz (Refer to the indicator manuals for system speed)	
Analogue Resolution	Approximately 1/65,000 (16 bit)	
I/O Power Supply COM+, COM-	12VDC to 24VDC Maximum voltage (without damage): 30VDC	
I/O Input	Input ON: $\geq 8V$ Input OFF: $\leq 3V$ Pulse counting: 300Hz maximum	
I/O Output	Maximum current (each I/O): 400mA ON voltage drop: 150mV	

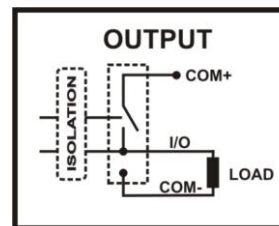
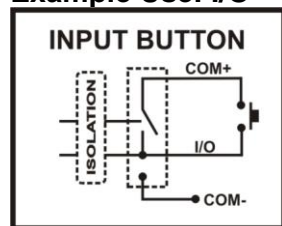
Module Connections



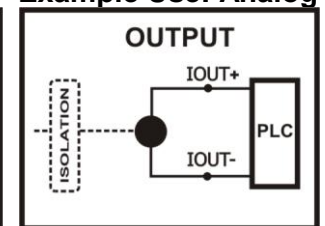
Output Diagrams



Example Use: I/O



Example Use: Analog



NOTE: I/O ARE DISABLED WHEN M5301 (8 INPUT/OUTPUT) IS USED.

M5401 SETUP

The indicator should be switched OFF before installing or removing this device.

Modules are configured using the indicator setup. Setup can be done via the indicator keypad or the viewer program. An overview of setup is given below; see the indicator Reference manual for detailed setup information.

The indicator provides both configuration checking and testing capabilities for the M5401. This is found in the ANALOG setup menu. See the indicator Reference manual.

K501 SOFTWARE SETUP

Analogue Settings

SETUP. . . ANALOG . . . TYPE (Voltage or Current)
CLIP (Limit output to 4-20mA/0-10V. Yes/No)
FRC.ANL (Test the analog output)
CAL.LO \ CAL.HI (Calibrate the analogue output)
ABS (Absolute –positive output with negative numbers)
SOURCE (Gross, Net, Gross/Net{Displayed})
WGT.LO (Weight at lower output value)
WGT.HI (Weight at higher output value)

Input Output Settings

The 2 I/O are configured to be IO1 and IO2 in the indicator. These I/O are disabled when a M5301 module is connected.

Output

(i) Setup. . . .SET.PTS. . . . (Refer to Reference manual for settings)

Input

(i) Setup. . . .SPEC. . . . IN.FN. . . . (Refer to Reference manual for settings)

Testing

(i) Setup. . . .TEST. . . . IO-1.4. . . . (Refer to Reference manual for settings)

M5401 TROUBLESHOOTING

The M5401 has 4 annunciators which help with troubleshooting. These annunciators are shown on the Module Connections figure above.

Problem	Possible solutions
Input not working. M5401 I/O annunciator not lit.	Check M5401 I/O power supply (COM+, COM-). Check wiring.
Input not working. M5401 I/O annunciator lit.	Check indicator setup Use indicator test functions (TEST: IO-1.4). Check if M5301 also connected.
Output not working. M5401 I/O annunciator not lit.	Check indicator setup Use indicator test functions (TEST: IO-1.4). Check if M5301 also connected.
Output not working. M5401 I/O annunciator lit.	Check wiring.
Analogue output not working.	Check indicator setup Use indicator test function (SETUP:ANALOG:FRC.ANL).