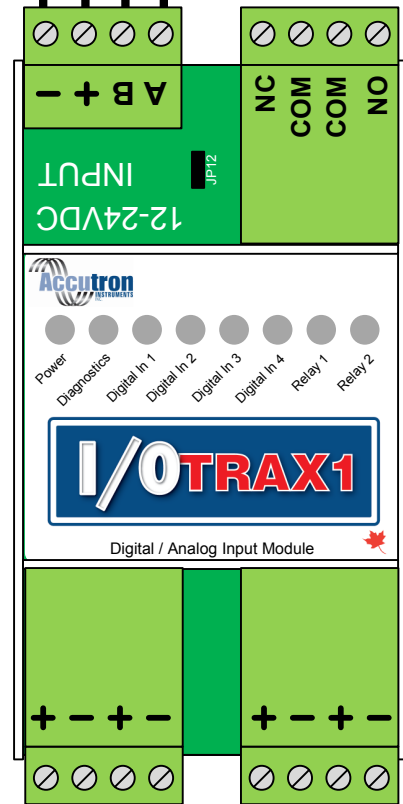
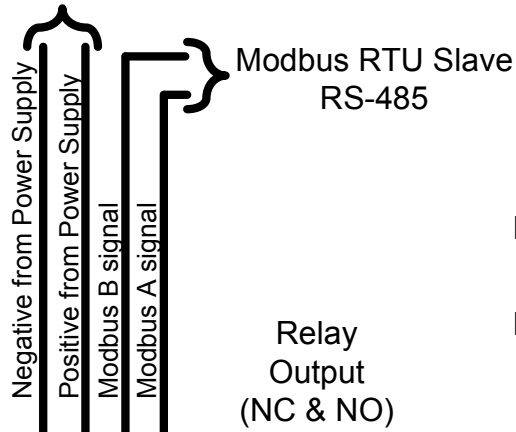
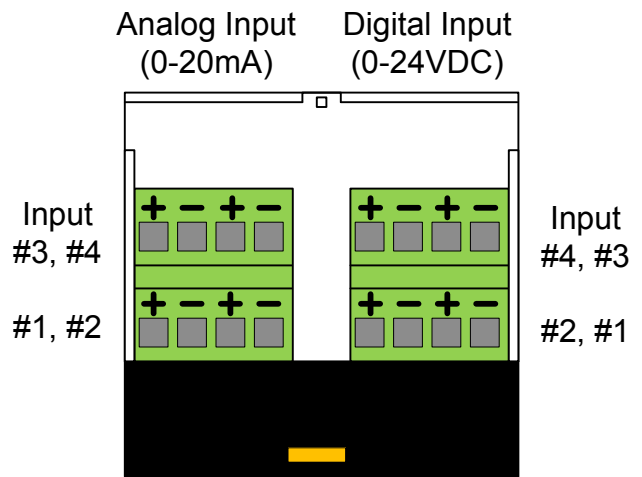
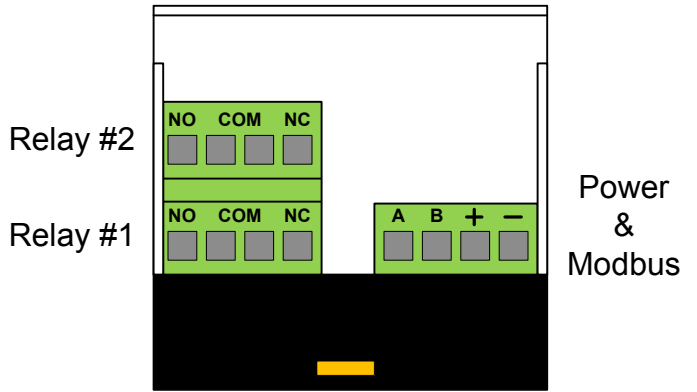



Input Power
7VDC to 30VDC



Isolated
Analog Inputs
(0-20mA)

Digital Input
(0-24VDC)



Rev	Description	Date	DWN: RD		I/OTrax1	
			CHK'D: RD		Wiring Diagram	Rev 1
Rev 0	Release	3-12-14	APP'D: JV		Drawing number: ACC-I/OTrax1-WIRING-01-SCH	1 of 1

I/O Trax1 Register Map

Address	Function	Type	Access	Notes
40001	Relay #1 (xxxxxxx#)	Integer 16	Read/Write	Relay On = (xxxxxxx1) Relay Off = (xxxxxxx0)
40002	Relay #2 (xxxxxxx#)	Integer 16	Read/Write	Relay On = (xxxxxxx1) Relay Off = (xxxxxxx0)
40003	Digital In #1 (xxxxxxx#)	Integer 16	Read	Digital In On = (xxxxxxx0) Digital In Off = (xxxxxxx1)
40004	Digital In #2 (xxxxxxx#)	Integer 16	Read	Digital In On = (xxxxxxx0) Digital In Off = (xxxxxxx1)
40005	Digital In #3 (xxxxxxx#)	Integer 16	Read	Digital In On = (xxxxxxx0) Digital In Off = (xxxxxxx1)
40006	Digital In #4 (xxxxxxx#)	Integer 16	Read	Digital In On = (xxxxxxx0) Digital In Off = (xxxxxxx1)
40007	Analog In #1	Integer 16	Read	Divide by 1000 for mA reading
40008	Analog In #2	Integer 16	Read	Divide by 1000 for mA reading
40009	Analog In #3	Integer 16	Read	Divide by 1000 for mA reading
40010	Analog In #4	Integer 16	Read	Divide by 1000 for mA reading
40011	Relay Bits (xxxxxx##)	Integer 16	Read/Write	Relay 1 on & 2 off = (xxxxxx01) Relay 1 off & 2 on = (xxxxxx10)
40012	Digital In Bits (xxxx####)	Integer 16	Read	Digital In 1 & 3 On = (xxxx1010) All Digital In Off = (xxxx1111)
40013 & 40014	Analog In #1 (mA)	Float 32	Read	Must read 40013 & 40014
40015 & 40016	Analog In #2 (mA)	Float 32	Read	Must read 40015 & 40016
40017 & 40018	Analog In #3 (mA)	Float 32	Read	Must read 40017 & 40018
40019 & 40020	Analog In #4 (mA)	Float 32	Read	Must read 40019 & 40020
40021	Heartbeat	Integer 16	Read	Increments every second up to 65535

x = doesn't matter

DIP Switch Settings

Switch 1 (Modbus ASCII or RTU)

0 = Modbus ASCII (7 data bits)

1 = Modbus RTU (8 data bits)

Switch 2, 3 (Parity)

00 = Odd Parity

01 = Even Parity

10 = No Parity, 1 Stop bits (ASCII 2 stop bits)

11 = No Parity, 2 Stop bits

Switch 4, 5 (Baud Rate)

00 = 4800

01 = 9600

10 = 19200

11 = 38400



Modbus Address Setting

The Modbus address is set by using the hexadecimal switches on the front.

To determine the address chosen, use the formula **(S2 x 16) + S1 = Modbus Address**

In hexadecimal: A = 10

B = 11

C = 12

D = 13

E = 14

F = 15

An Example:

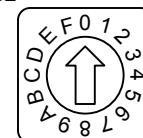
S2 = 0, S1 = A:

(0 x 16) + 10 = address 10

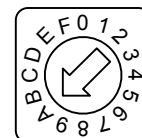
S2 = 1, S1 = 8:


(1 x 16) + 8 = address 24

S2



S1



Rev	Description	Date	DWN: RD		I/OTrax1	
			CHK'D: RD		Modbus Registers	Rev 0
			APP'D: JV		Drawing number	ACC-I/OTRAX1-QUKREF-01
Rev 0	Release	3-12-14			1 of 1	

Specifications

Power Input:

7 to 30VDC, 50mA at 24V (1.2W)

Relay Ratings:

Max Switching Voltage: 220VDC, 250VAC

Rated Current: 5A

Switching Power: 60W, 62.5VA

Digital Inputs:

Range: 0VDC to 27VDC

Input on (0) = ≥ 3 VDC

Input off (1) = ≤ 2 VDC

Absolute maximum: 30VDC

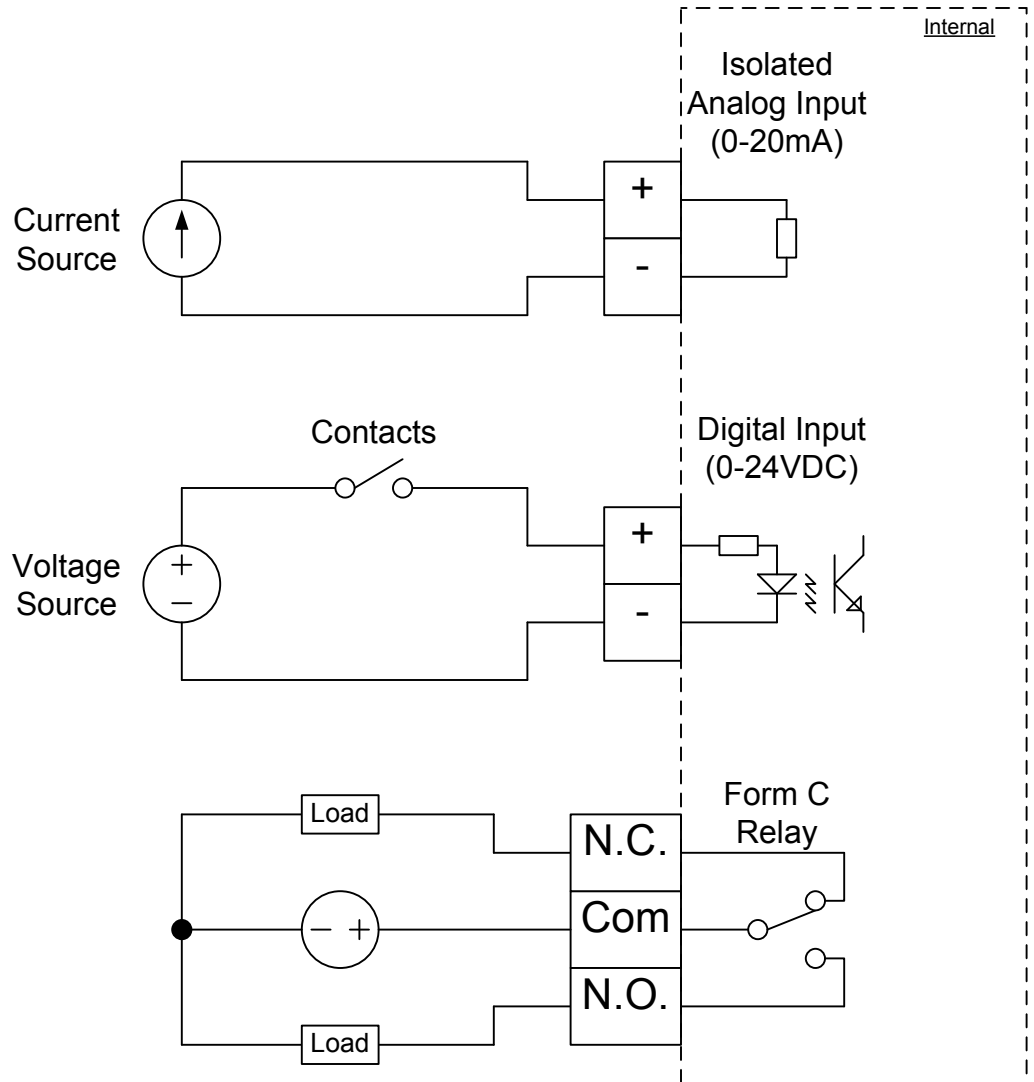
Current Inputs:


Range: 0mA to 20.1mA

Absolute maximum: 40mA

Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Wiring Examples



Rev	Description	Date	DWN: RD		I/OTrax1	
			CHK'D: RD		Specs & Wiring examples	Rev 0
			APP'D: JV		Drawing number	ACC-I/OTRAX1-QUKREF-01
Rev 0	Release	3-12-14			1 of 1	