



Badger Meter

Industrial Flow Computer

4010 Flow Monitor to FC-5000 Flow Computer
Wiring Interchange

4010 (SINGLE PULSE INPUT) TO FC-5000 CONNECTION EQUIVALENTS

- Type/Personality: Flow Monitor
- FC-5000 Part Number: FC5-FM-P0-FC6A



AC POWER INPUT RANGE FOR THE FC-5000 IS 9...28V AC. DO NOT APPLY 120V AC OR 240V AC.

FC-5000			4010 (Single Pulse Input)		
Terminal Block (TB#)	Connection Pin & Function	Ref. Pin #	Terminal Block	Function	Ref. Pin #
TB1 - Power Input	1 - Positive (L1/Line/Phase)	1	TB2 - 24V DC Input	V+ IN	6
	2 - Shield	2		—	—
	3 - Negative (Neutral)	3		Common	5
	4 - Protective Earth	4		Safety Ground	TB1 - Pin 6
TB2 - Digital I/O	1 - Excitation Voltage (5V DC)	5	TB5	—	—
	2 - Digital I/O Ch 1	6		Control Input 1	2
	3 - Digital I/O Ch 2	7		Control Input 2	3
	4 - Digital I/O Ch 3	8		Control Input 3	4
	5 - Digital I/O Ch 4	9		Control Input 4	5
	6 - Digital I/O Ch 5	10		Control Input 5	6
	7 - Digital I/O Ch 6	11		—	—
	8 - Digital I/O GND	12		Common	7
TB3 - Relay 1 (Form C)	1 - Normally Open	13	TB3	K1 NO	1
	2 - Common	14		K1 Common	3
	3 - Normally Closed	15		K1 NC	2
TB4 - Relay 2 (Form C)	1 - Normally Open	16		K2 NO	4
	2 - Common	17		K2 Common	6
	3 - Normally Closed	18		K2 NC	5
TB5 - Single Pulse Input	1 - Excitation Voltage (12V DC)	19	TB4	+V Signal Conditioner	TB2 - Pin 7
	2 - Process Input CH1 (+)	20		Flow Meter Input Signal A	5
	3 - Process Input (GND)	21		Flow Meter Return Signal	4 & 6
	4 - Shield	22		—	—
	Not Available	23		—	—
TB6 - Dual Temperature Input	Not Available	24	—	—	—
		25			
		26			
		27			
		28			
		29			
		30			
TB7 - Frequency or Analog Output	1 - Output Channel 1	32	TB 2 - Transistor Outputs	Transistor Output 1	1
	2 - Output Channel 2	33		Transistor Output 2	2
	3 - Freq/Analog Output GND	34		Common	5
	4 - Shield	35		—	—
TB8 - RS485 Comms	1 - Shield	36	TB 5	Shield	1
	2 - Negative Terminal	37		Comm -	2
	3 - Positive Terminal	38		Comm +	3
	4 - RS485 Ground	39		—	—

Notes:

- TB1 from the 4010 is 120/240V AC input. DO NOT hookup 120V AC or 240V AC to the F-5000 Power Input terminal.
- Transistor Outputs 3 and 4 are unused. F-5000 has only 2 frequency outputs.
- Inhibit Input B Removed.

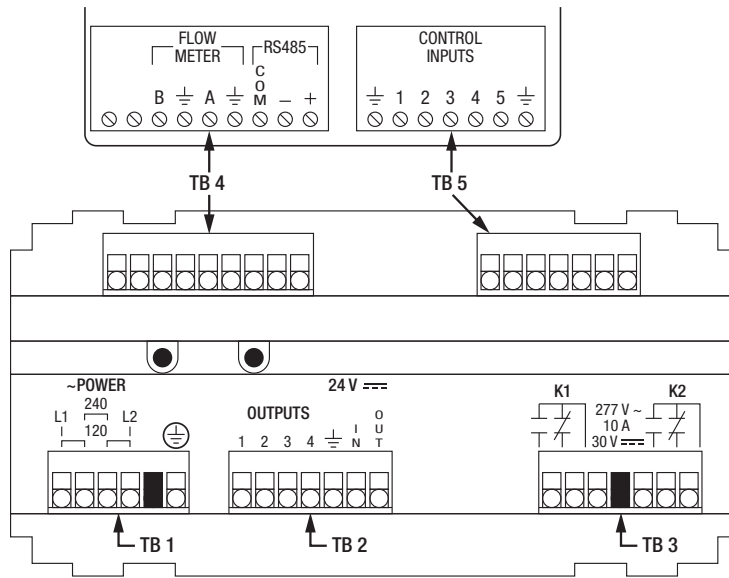


Figure 1: 4010 flow computer back panel

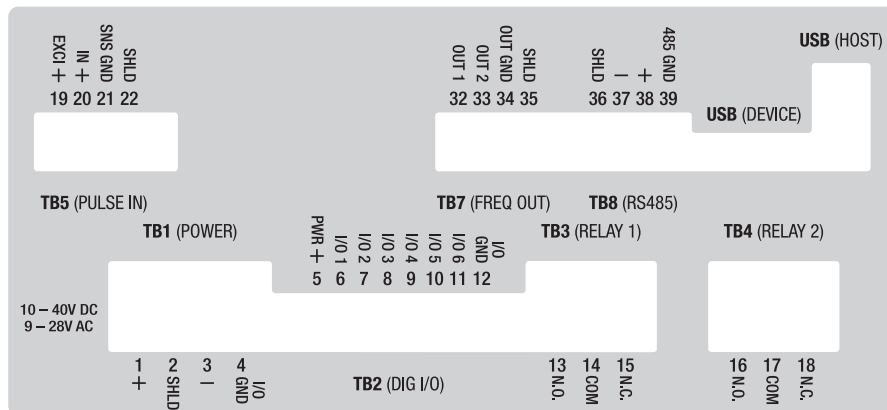


Figure 2: FC-5000 flow computer back panel—single pulse

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