FilterCheck System_TSI FLowmeter v2

ELECTRICAL



ATOR Labs

7506 Holley Cir

SCHEME

Cover page

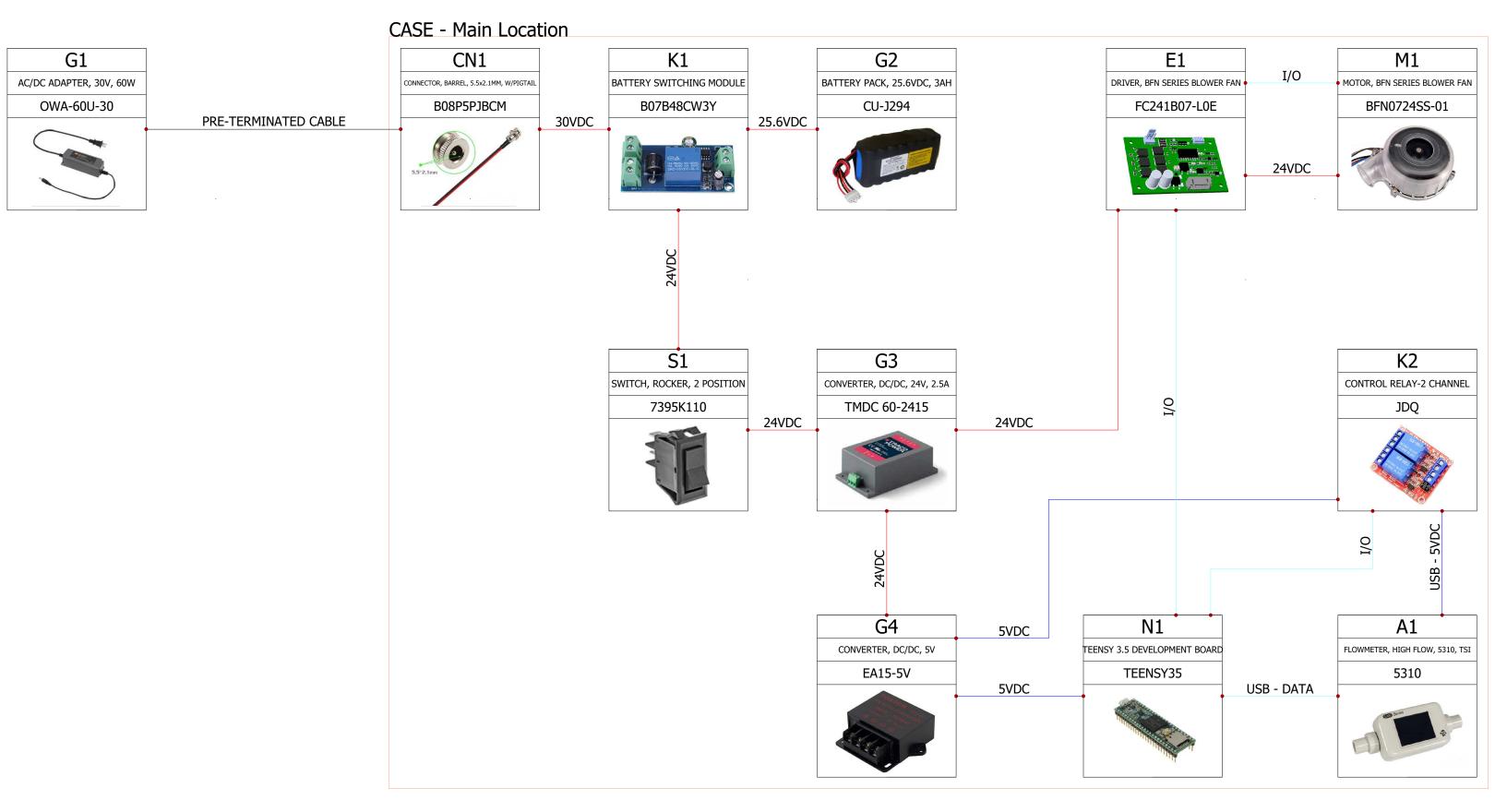
REVISION

Panama City Beach, FL 32408

1-Document book

Drawing	Description	Function	Location	Revision	Date	Created by	Folder	Folder description
<u>A</u>	Cover page	F1	CASE	A	5/4/2022	J. Dickon		
<u>B</u>	Drawings list	F1	CASE	А	5/4/2022	J. Dickon		
<u>01</u>	Wiring Line Diagram	F1	CASE	А	5/4/2022	J. Dickon	С	Line Diagram
<u>01</u>	Power	F1	CASE	А	5/4/2022	J. Dickon	D	Schematics
02	Motor Control	F1	CASE	А	5/4/2022	J. Dickon	D	Schematics
03	MCU	F1	CASE	А	5/4/2022	J. Dickon	D	Schematics
04	RELAY CONTROL	F1	CASE	А	5/6/2022	J. Dickon	D	Schematics
05	FLOWMETER	F1	CASE	A	5/5/2022	J. Dickon	D	Schematics
06	Bill Of Materials grouped by manufacturer	F1	CASE	А	5/6/2022	J. Dickon	E	Reports
<u>07</u>	Bill Of Materials grouped by manufacturer	F1	CASE	A	5/6/2022	J. Dickon	E	Reports
08	Bill Of Materials grouped by manufacturer	F1	CASE	Α	5/9/2022	J. Dickon	Е	Reports

SOLIDWORKS Electrical A 5/4/2022 J. Dickon Drawings list REVISION ATOR Labs 7506 Holley Cir SCHEME REV. DATE NAME CHANGES Panama City Beach, FL 32408 В User data 1 User data 2 LOCATION: CASE Main Location CONTRACT:

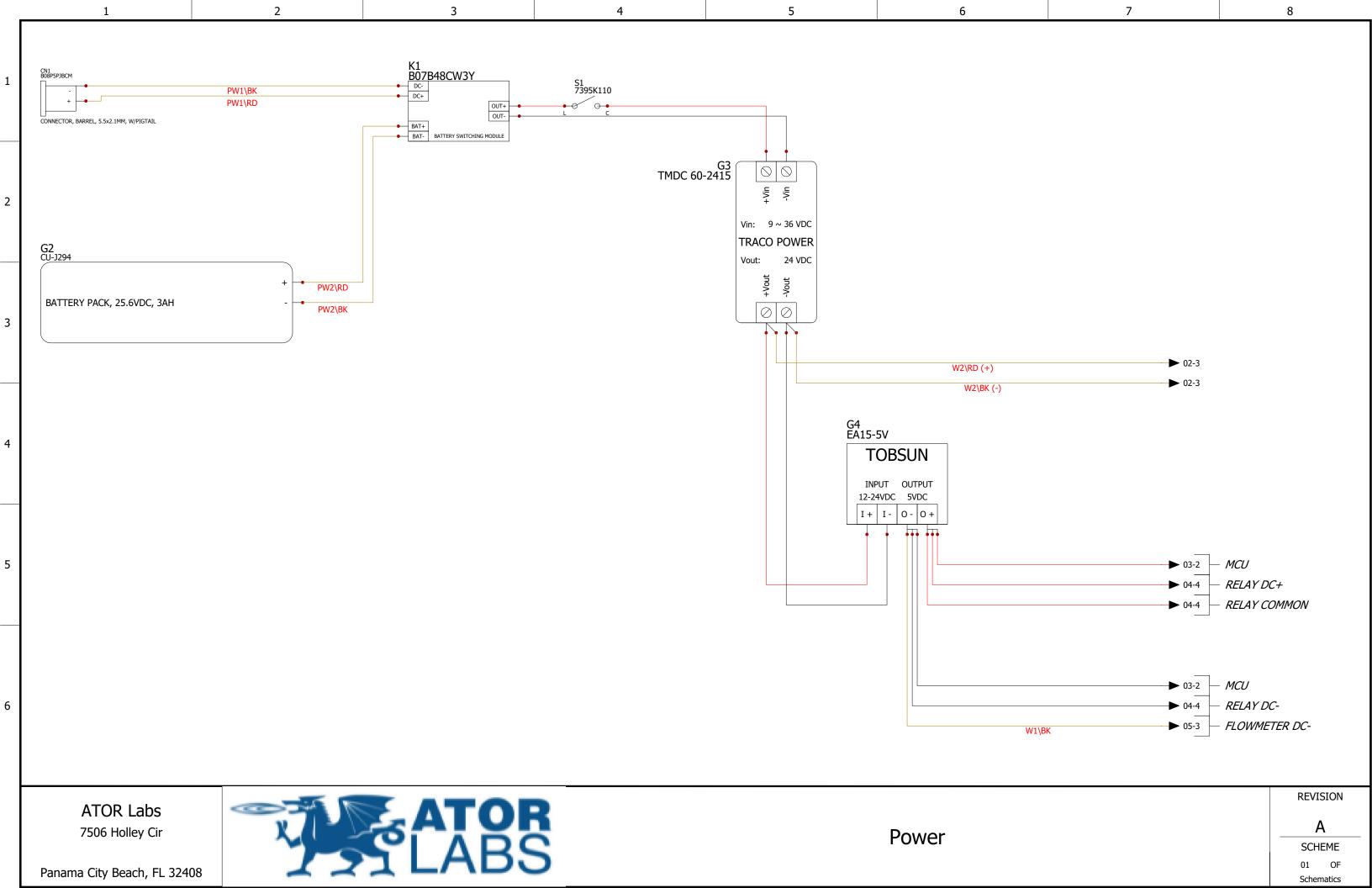


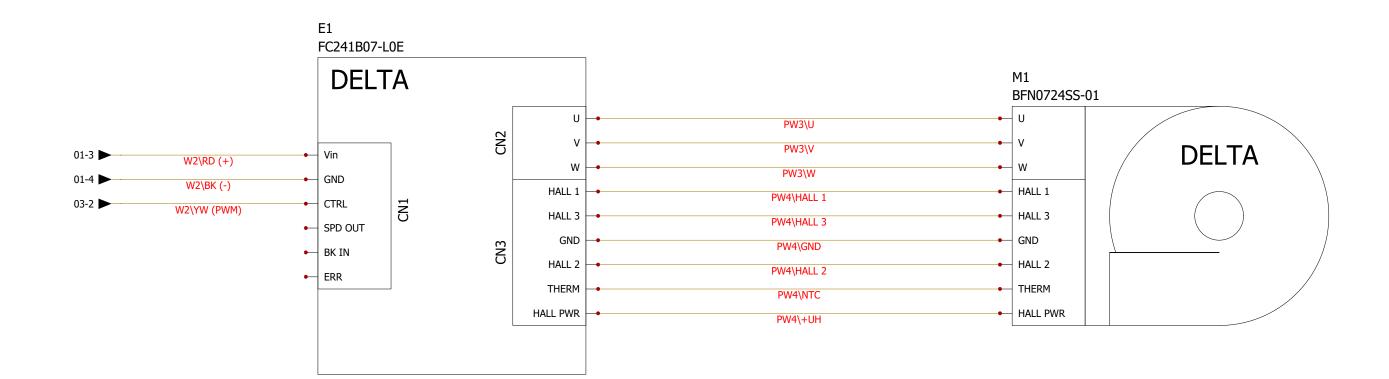
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7506 Holley Cir
Panama City Beach, FL 32408



Wiring Line Diagram

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Α	J. Dickon	5/4/2022	Α
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SCHEME			
01 OF 12			





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Control

REV.	DATE	NAME	REVISION
Α	5/4/2022	J. Dickon	Α
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			SCHEME
			02 OF 12

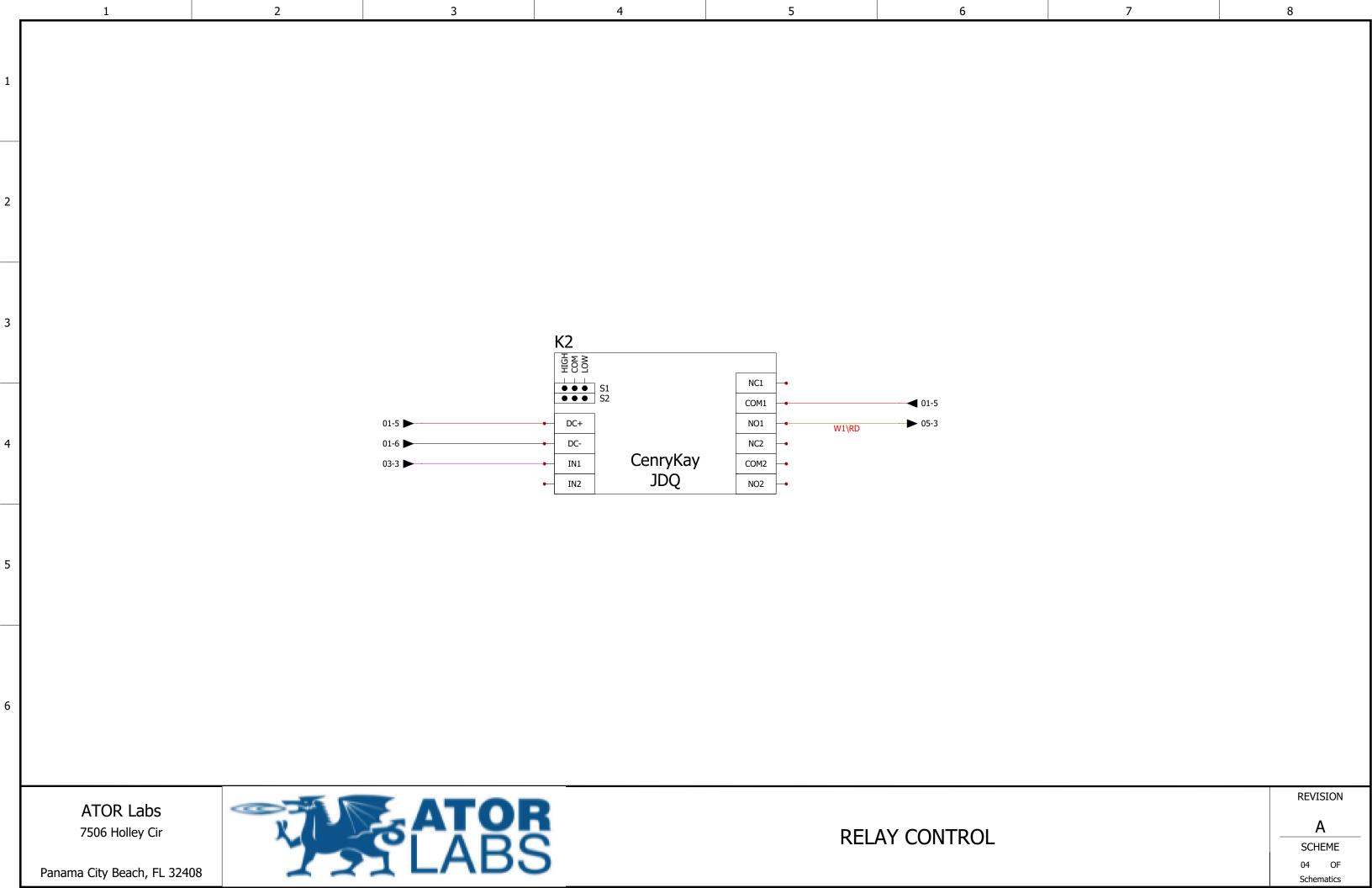
BREAKOUT BOARD W/TERMINALS, TEENSY 3.5/3.6 N1 TEENSY35 GND 01-6 Vin ANALOG GND **1**01-5 W3\WH (TXD) FLOWMETER COMMS 3.3V W3\GN (RXD) BOARD 02-3 🗲 23 MOTOR SPD CNTRL 22 21 20 DEVELOPMENT 19 BU H2 18 RELAY 1 TRIGGER 04-4 17 16 15 14 13 3.3V 3.5 GND DAC1 DAC0 TEENSY 39 38 37 36 35 34 32 33

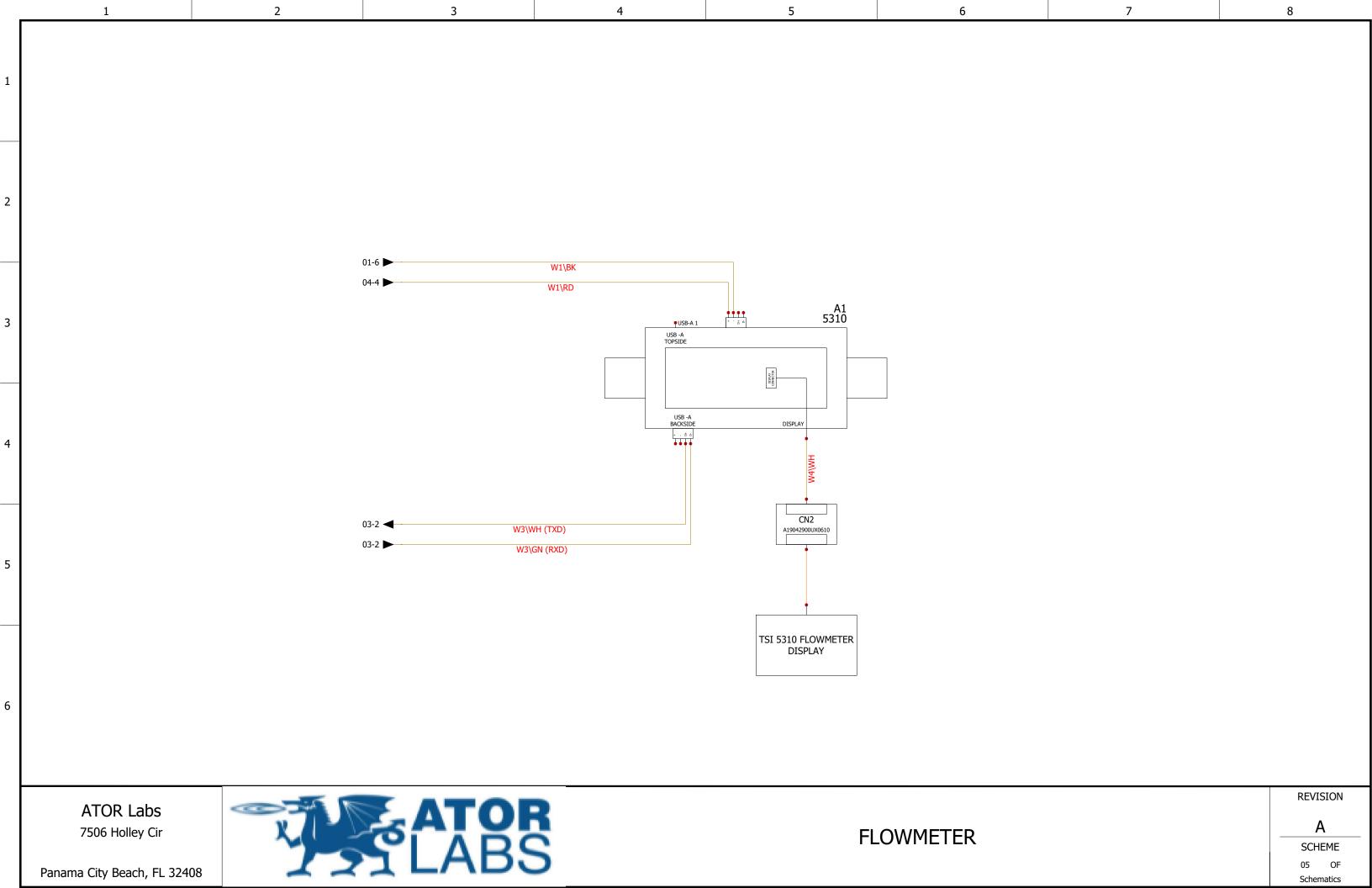
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MCU

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Α	5/4/2022	J. Dickon	Α
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			03 OF 12





	_		3	3	ŭ	,	
attery	Space						
	Reference	Mark	Description			Qı	uantity
1	CU-J294	<u>G2</u>	BATTERY PACK, 25.6VDC, 3AH			1	
enryKa	ı y						
	Reference	Mark	Description			Qı	uantity
1	JDQ	<u>K2</u>	CONTROL RELAY-2 CHANNEL			1	
DELTA							
	Reference	Mark	Description			Qı	uantity
1	BFN0724SS-01	<u>M1</u>	MOTOR, BFN SERIES BLOWER FAN			1	
2	FC241B07-L0E	<u>E1</u>	DRIVER, BFN SERIES BLOWER FAN			1	
EDGELE			Description				
	Reference	Mark	Description			Qı	uantity
	B07NPR215H	<u>H2</u>	LED, BLUE, 3MM, 12V			1	
2	B07PXYYB56	<u>H1</u>	LED, GREEN, 3MM, 12V			1	
	ΓER-CARR						
1CMAS			Description			O	uantity
1CMAS ⁻	Reference	Mark					
	Reference 7395K110	Mark <u>S1</u>	SWITCH, ROCKER, 2 POSITION			1	
	7395K110						
1	7395K110					1	uantity

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Panama City Beach, FL 32408

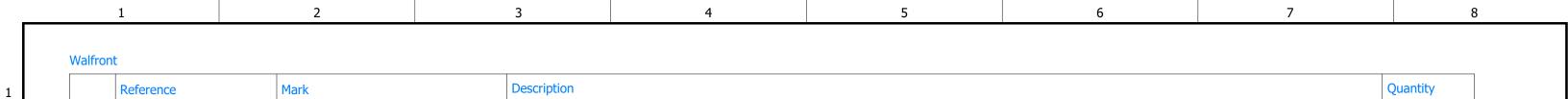


Bill Of Materials grouped by manufacturer

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SCHEME
06 OF
Reports

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OONO					
	Reference	Mark	Description	Q	uantity
1	B08R7QZLC9	<u>A2</u>	BREAKOUT BOARD W/TERMINAL	LS, TEENSY 3.5/3.6 1	
			<u>'</u>		
RC	T				
	Reference	Mark	Description	Q	uantity
1	TEENSY35	<u>N1</u>	TEENSY 3.5 DEVELOPMENT BOA	ARD 1	
OFOW	/IN				
	Reference	Mark	Description	Q	uantity
1	B08P5PJBCM	CN1	CONNECTOR, BARREL, 5.5x2.1M	1M, W/PIGTAIL	
			<u>'</u>		
BSUN	V				
	Reference	Mark	Description	Q	uantity
1	EA15-5V	<u>G4</u>	CONVERTER, DC/DC, 5V	1	
RACO	POWER Reference	Mark	Description	Q	uantity
1	TMDC 60-2415	<u>G3</u>	CONVERTER, DC/DC, 24V, 2.5A		
SI					
	Reference	Mark	Description	Q	uantity
1	5310	<u>A1</u>	FLOWMETER, HIGH FLOW, 5310), TSI	
XCELL					
	Reference	Mark	Description	Q	uantity
1	A19042900UX0610	CN2	CONNECTOR, EXTENSION, 36PIN	N TO 36PIN, FFC/FPC, 0.5MM PITCH	
			·	·	
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	16 Holley Cir	X.	ATOR	Bill Of Materials grouped by manufacturer	
		1	TABS	bill of Flaterials grouped by Hariaracturer	S
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Panama City Beach, FL 32408



WARMSTOR

2

5

6

1 B07B48CW3Y

<u>K1</u>

	Reference	Mark	Description	Quantity
1	B073GTBQ8V	<u>A1</u>	USB 3.0, ADAPTER, 90DEG	1

BATTERY SWITCHING MODULE

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Panama City Beach, FL 32408

Bill Of Materials grouped by manufacturer

REVISION SCHEME Reports

Mark	Description	Location path	From location	To location	Length (m)	Reference	Manufacturer
PW1	CONNECTOR, BARREL, 5.5x2.1MM, B08P5PJBCM, PRE-TERM WIRE	<>				0 B08P5PJBCM-WIRE (PRE-TERMINATED)	QOFOWIN
PW2	BATTERY PACK, 25.6V, 3.2AH, LIFEPO4, PRE-TERM WIRE	CASE<>CASE	CASE - Main Location	CASE - Main Location		0 CU-J294-WIRE (PRE-TERMINATED)	BATTERYSPACE.COM
W1	CABLE, USB-C 90DEG TO USB-A STR	CASE<>CASE	CASE - Main Location	CASE - Main Location		0 B07VJNQT6F	UGREEN
PW3	POWER CABLE PRE-CONNECTED TO MOTOR	<>				0 BFN0724SS-01 PWR	DELTA
W2	CABLE, FC241B07-L0E CONTROL, CONNECTOR TO OPEN	CASE<>CASE	CASE - Main Location	CASE - Main Location		0 FC241B07-L0E_CONTROL	DELTA
W3	CABLE, USB TO TTL, 3.3V	CASE<>CASE	CASE - Main Location	CASE - Main Location		0 B07RBKCW3S	DTECH
PW4	CONTROL CABLE PRE-CONNECTED TO MOTOR	<>				0 BFN0724SS-01 CONTROL	DELTA
W4	CABLE, RIBBON, FLAT, 36PIN, 0.5MM PITCH	CASE<>CASE	CASE - Main Location	CASE - Main Location		150 A19041700UX0542	UXCELL

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Panama City Beach, FL 32408



3

List of the cables

REVISION

A
SCHEME
09 OF
Reports

7

8