B	w. r			
Part		Description	Manufacturer Part Num	Purchase Link In Stock
C1		Pressure Sensor Decoupling	C315C102K1R5TA7301	https://www.mouser.com/ProductDeali/KEMET/C315c102X1RSTA73017gs=10iLlmb%252BG4ePsn46AUZ5LQ%3D%3D
C2		Pressure Sensor Decoupling	C322C104K5R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C322C104K5R5TA7301?qs=KfB3n62fOAmGC1KzMqasfv%3D%3D
C3		Pressure Sensor Decoupling	C315C102K1R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C315C102K1R5TA7301?qs=1OiLlmb%252BG4ePsn46AUZ5LQ%3D%3D
C4		Pressure Sensor Decoupling	C322C104K5R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C322C104K5R5TA7301?qs=KfB3n62fOAmGC1KzMqasfw%3D%3D
C5		Pressure Sensor Decoupling	C315C102K1R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C315C102K1R5TA73017qs=10iLlmb%252BG4ePsn46AUZ5LQ%3D%3D
C6		Pressure Sensor Decoupling	C322C104K5R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C322C104K5R5TA7301?qs=KfB3n62fOAmGC1KzMqasfw%3D%3D
C7		Pressure Sensor Decoupling	C315C102K1R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C315C102K1R5TA73012qs=1OiLImb%252BG4ePsn46AUZ5LQ%3D%3D
C8		Pressure Sensor Decoupling	C322C104K5R5TA7301	https://www.mouser.com/ProductDetail/KEMET/C322C104K5R5TA7301?qs=KfB3n62fOAmGC1KzMqasfw%3D%3D
C9		Bulk Cap, Electrolytic	ECA-1HM470	https://www.mouser.com/ProductDetail/Panasonic/ECA-1HM470?qs=JVkwg7sf6ag30xYqwv9Flg%3D%3D
		A4990 Dual Motor Driver Carrier (Pololu)		https://www.pololu.com/groduct/2137/
DRIVER2		A4990 Dual Motor Driver Carrier (Pololu)		https://www.pololu.com/groduct/2137/
J1	VIN Connector	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
J2	RS485 out	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
J3	RS485 in	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
V0	Valve 0 Connector	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdaipSf3VLd4K34xU%252BwLgw%3D%3D
V1	Valve 1 Connector	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
V2	Valve 2 Connector	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
V3	Valve 3 Connector	TERMI-BLOK PCB MOUNT 2P. 5	282841-2	https://www.mouser.com/ProductDetail/TE-Connectivity/282841-2?qs=gdajpSf3VLd4K34xU%252BwLgw%3D%3D
P0	PRESSURE_SENSOR_ABPE	Honeywell Pressure Sensor (ABPDRNN1	(ABPDRNN100PGAA5	https://www.mouser.com/ProductDetail/Honeywell/ABPDRNN100PGAA5?qs=sGAEpiMzZMvhQj7WZhFIAD2P7qVC0dZ7tl11ZYAVyGqQK%2FMhVJdgGw%3D%3D
P1	PRESSURE_SENSOR_ABPE	Honeywell Pressure Sensor (ABPDRNN1	(ABPDRNN100PGAA5	https://www.mouser.com/ProductDetail/Honeywell/ABPDRNN100PGAA5?qs=sGAEpiMzZMvhQj7WZhFIAD2P7qVC0dZ7tl11ZYAVyGqQk%2FMhVJdgGw%3D%3D
P2	PRESSURE_SENSOR_ABPE	Honeywell Pressure Sensor (ABPDRNN1	(ABPDRNN100PGAA5	https://www.mouser.com/ProductDetail/Honeywell/ABPDRNN100PGAA57qs=sGAEpiMzZMvhQj7WZhFIAD2P7qVC0dZ7tl11ZYAVyGqQk%2FMhVJdqGw%3D%3D
P3		Honeywell Pressure Sensor (ABPDRNN1		https://www.mouser.com/ProductDetail/Honeywell/ABPDRNN100PGAA5?qs=sGAEpiMZZMvhQj7WZhFIAD2P7qVC0dZ7tl11ZYAVyGqQk%2FMhVJdgGw%3D%3D
NANO1		Arduino Nano Every	ABX00028	https://store-usa.arduino.cc/products/arduino-nano-every/gciid=CjwKCAjwxOymBhAFEiwAnodBLP_y1WvCCY0_Q8ntHPWPeAtwbuN7Mj739_57wv7qUN2cPk_mpQiYexoC38IQAvD_BwE
C101	10nF	555 timer CV cap	C0805C103J5RAC7210	https://www.mouser.com/ProductDetail/KEMET/C0805C103J5RAC7210?qs=r%2FVmNO8Tiq51ppmyleF1dQ%3D%3D
C100	.1uF	555 timer timing cap	C0805C104J5RAC	https://www.mouser.com/ProductDetail/KEMET/C0805C104J5RAC?qs==%2FVmNO8Tjq7NnSJCDQvplq%3D%3D
C102		555 timer decouple cap	C0805C104J5RAC	https://www.mouser.com/ProductDetail/KEMET/C0805C104J5RAC?qs=+%2FVmNO8Tjq7NnSJCDQvplq%3D%3D
C103	.1uF	rs485 transciever decoupling cap	C0805C104J5RAC	https://www.mouser.com/ProductDetail/KEMET/C0805C104J5RAC?qs=r%2FVmN08Tjq7NnSJCDQvplg%3D%3D
C105		Buck converter Cboot	C0805C104K5RAC7411	https://www.mouser.com/ProductDetail/KEMET/C0805C104K5RAC7411?qs=ibRM9o5BbzPcVXF0wW9AYq%3D%3D
C112		Buck converter Cff	C0805C271K5RACTU	https://www.mouser.com/ProductDetail/KEMET/C0805C271K5RACTU?qs=E4s8%2FtsD28jC6IPOHi7uBQ%3D%3D
C109	· ·	LDO output cap	C2012X7R1H475K125AC	https://www.mouser.com/ProductDetaii/TDK/C2012X7R1H475K125AC?qs=P1JMDcb916brNvz9C%252Bl3w%3D%3D
C110		LDO input cap	C2012X7R1H475K125AC	https://www.mouser.com/ProductDetail/TDK/C2012X7R1H475K125AC7qs=P1JMDcb91o6brNyz9C%252Bl3w%3D%3D
R108		Buck converter Rfbb	CRCW080510K0FKEAC	https://www.mouser.com/ProductDetail/Vishav-Dale/CRCW080510K0FKEAC?qs=E3Y5ESvWqWORadmUijPtxQ%3D%3D
R106		Buck converter Rt	CRCW080510K5FKEA	https://www.mouser.com/ProductDetail/Vishay-Dale/CRCW080510K5FKEA?qs=LOX6nxTstiba9M0DnDL5aA%3D%3D
R107		Buck converter Rfbt	CRCW0805110KFKTA	https://www.mouser.com/ProductDetail/Vishav-Dale/CRCW0805110KFKTA7qs=IAAKfumgcshWZsupBauqGw%30%3D
S1		RS485 Address select dip switch	DS01-254-S-02BE	tups://www.micuser.com/productDetail/Citis-Devices/DS01-254-S-028E/2cs-wm/154/TX/SSTM.uWk./Jz/vww%5D%5D https://www.mouser.com/productDetail/Citis-Devices/DS01-254-S-028E/2cs-wm/154/TX/SSTM.uWk./Jz/vww%5D%5D https://www.mouser.com/productDetail/Citis-Devices/DS01-254-S-028E/2cs-wm/154/TX/SSTM.uwk./Jz/vww/%5D%5D
C106		Buck Converter Cout	GRM31CR61C476ME44L	https://www.mouser.com/ProductDetail/Murata-Electronics/GRM31CR6T0478647472s=OzBIWTOodeXuG%2FGfUSyqQ%3D%3D
C107		Buck Converter Cout	GRM31CR61C476ME44L	https://www.mouser.com/ProductDetail/Murata-Electronics/GRM31CR61C476ME441/7as=C28WT00deXuC9%2FGGISyq0%3D%3D
C107		Buck Converter Cout	GRM31CR61C476ME44L	titips://www.mouser.com/ProductDetail/Wintate-Electronics/GRM31CR61C476ME4H_Clgs=CzellWTOodeAuG*%2FGfilSyqQ%3D%3D https://www.mouser.com/ProductDetail/Wintate-Electronics/GRM31CR61C476ME4H_Clgs=CzellWTOodeAuG*%2FGfilSyqQ%3D%3D
C108		Buck converter Cin	GRM31CR71H475KA12L	titups.//www.mouser.com/ProductDetail/witrats-Electronics/GRM31CR71H475KA12L7Gs=COX/K322ERk1T66%252EVROUS-MOUS9W3D https://www.mouser.com/ProductDetail/witrats-Electronics/GRM31CR71H475KA12L7Gs=COX/K322ERk1T66%252EVROUS-MOUS9W3D by the control of the control
R100	1.7 01	TX Pullup	KTR10EZPF1002	
R100 R104		1X Pullup 555 Output Pullup	KTR10EZPF1002 KTR10EZPF1002	https://www.mouser.com/ProductDetail/ROHM-Semiconductor/KTR10EZPF1002?qs=DyUWGjl%252BcVt9YFVbj3Whfg%3D%3D https://www.mouser.com/ProductDetail/ROHM-Semiconductor/KTR10EZPF1002?qs=DyUWGjl%252BcVt9YFVbj3Whfg%3D%3D
R104 R105		RX Pullup	KTR10EZPF1002 KTR10EZPF1002	https://www.mouser.com/ProductLealark.Urim-semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/ProductDetail/kDriM-Semiconductor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJV-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szdek/VBTY-VojaVmrg/s-sJU https://www.mouser.com/productor/kTR10EZPF1002/gs=byUwGjik-szd
R101 R102		RS485 termination resistor Current Limiting Resistor for TX LEd	KTR10EZPF1200 KTR10EZPF1601	https://www.mouser.com/ProductDetail/ROHM-Semiconductor/KTR10EZPF1200?qs=493kPxzlxft.5wHxRFe6rdg%3D%3D https://www.mouser.com/ProductDetail/ROHM-Semiconductor/KTR10EZPF1601?qs=493kPxzlxft.7/irgbqDPDkw%3D%3D
		•		
R103		Driver Enable Timing Resistor	KTR10EZPF1001	https://www.mouser.com/ProductDetail/ROHM-Semiconductor/KTR10EZPF10017qs=DyUWGji%252BcV/mcyNLTYBURQ%3D%3D
IC103	Buck Converter	Step-Down Buck Regulator	LMR14050SDDAR	https://www.mouser.com/ProductDetail/Texas-Instruments/LMR14050SDDAR7qs=G5PZsBocSXuzvyUQdQ5q2Q%3D%3D
IC100		Rs485 auto enable driver timer	NE555DR	https://www.mouser.com/ProductDetail/?qs=gb35HGp1gQJ5U8ZthvvoVQ%3D%3D
D100		Buck converter diode	PDS760-13	https://www.mouser.com/ProductDetail/Diodes-Incorporated/PDS760-13?qs=%2FNF5U5UGuWlxwy7NIrHVWQ%3D%3D
TX				https://www.mouser.com/ProductDetait/Broadcom-Avago/HLMP-1790?qs=jT926tsiFNn7DUeN%2FWQOFQ%3D%3D
IC101		RS-485 Interface IC	THVD1428DR	https://www.mouser.com/ProductDetail/Texas-Instruments/THVD1428DR?qs=TiOZkKH1s2SLJsGaZSN%2FjA%3D%3D
IC102		LDO regulator	TPS7B6950QDBVRQ1	https://www.mouser.com/ProductDetail/Texas-Instruments/TPS7B6950QDBVRQ1?qs=n7vHx8wJIDGjt5D3YkjksA%3D%3D
C111		Buck converter Css	VJ0805Y822KXAAC	https://www.mouser.com/ProductDetail/Vishay-Vitramon/V.J0805Y822KXAAC?qs=3NWcvBQo1qOz1y0rS11B8w%3D%3D
L100		Buck converter inductor	XAL4030-332MEC	https://www.mouser.com/ProductDetail/Coilcraft/XAL4030-332MEC?qs=zCSbvcPd3paCl%252Bgj18yZeg%3D%3D
JP1	I2C Breakout	PIN HEADER		
	JUMPER-SMT_2_NO_SILK	Normally open jumper		
JP100	COMM ENCOMMILE_ING_CHERC			
JP100	COMM EAR COMM_E_TATO_COLER			
JP100	COMITE ETCOMITE ETCOME			
JP100				