



Title		
Ingeniørskjema		
Size	Number	Revision
A	1	1
Date: 4-23-2020		Sheet of 1
File: C:\Users\...\Ingeniørskjema.SchDoc		Drawn By: Michael Berg

Comment	Description	Designator	Footprint	LibRef	Quantity
I2C LCD				I2C LCD	1
LCDSCREEN				LCDSCREEN	1
MQ2 GAS_SENSOR			MQ2 GAS_SENSOR	MQ2 GAS_SENSOR	1
Servo				Servo, Component_1	2
VL6180x				VL6180x	1
NTC TERMISTOR	Varistor (Voltage-Sensitive Resistor)	10K, NTC1	6-0805_N	Res Varistor	2
SW PUSHBUTTON		BTN, BTN1, SW1, SW2	SW_3X4X2MM	SW PUSHBUTTON	4
1nF/50V(10%)		C1, C9, C14, C15, C?	0402C	CAP NP	5
10uF/25V(10%)		C1, C18, C20	0603C	CAP NP	3
22uF/25V(10%)		C3	0603C	CAP NP	1
0.1uF/25V(10%)		C16, C19	0402C	CAP NP	2
100uF/6.3V(20%)		C21	1206C	CAP NP	1
1uF/10V(10%)		C22	0402C	CAP NP	1
10uF/25V(10%)(NC)		C23	0603C	CAP NP	1
RED LED		D1	0603D/A	LED_1	1
ALARMLED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D1, D?	3.2X1.6X1.1	LED2	2
ESP32_MODULE		D2	ESP32_MODULE	ESP32_MODULE_1	1
1N5819		D3	DO-214AC	DIODE_POWER	1
ESD05V88D-LC		D4, D5	ESD0402	DIODE BI-DIR TRIG	2
USB_CON8		J1	USB_5P	CON4_2	1
CON20		J1, J2, J3, J?	CON20_2P54	CON19_0	6
Buzzer	Magnetic Transducer Buzzer	LS, LS?	ABSM-1574	Buzzer	2
S8050(NPN)		Q1, Q2	SOT-23-3	NPN BCE	2
2K(1%)		R2	0402R	RESISTOR_0	1
470R(1%)		R3, R4, R23	0402R	RESISTOR_0	3
5K(1%)(NC)		R7, R15	0402R	RESISTOR_0	2
12K(1%)		R11, R21, R22	0402R	RESISTOR_0	3
0R(1%)		R17, R18, R24	0402R	RESISTOR_0	3
0R(1%)(NC)		R19, R20	0402R	RESISTOR_0	2
3.3K(1%)(NC)		R25	0402R	RESISTOR_0	1
Res2	Resistor	R, R1, R2, R3, R4	AXIAL-0.4	Res2	8
MQ2 GAS SENSOR	ANALOG GAS SENSOR	SENSOR		MQ2 GAS SENSOR	1
VL6180x TOF		SENSOR		VL6180x TOF	1
CP2102_QFN_P28		U1	CP2102_QFN_28P	CP2102_QFN_28	1
NCP1117		U2	NCP1117	NCP1117	1
	PCA9685 - 16 Channel 12-Bit I2C PWM Controller 5.0V tolerant 16 channel, 12-bit I2C PWM controller with 25mA per output (max. 400mA total) Digikey: 568-5931-1-ND	U?	TSSOP28	PCA9685	2