

DAFTAR GAMBAR

Gambar 2.1	Jantung Manusia	7
Gambar 2.2	Pembentukan impuls kelistrikan jantung	9
Gambar 2.4	Sistem konduksi jantung	10
Gambar 2.4	Alat <i>monitoring</i> EKG	11
Gambar 2.5	Proses pembentukan sinyal PQRST	14
Gambar 2.6	Sadapan bipolar dan unipolar	16
Gambar 2.7	Sadapan Prekardial	17
Gambar 2.8	<i>Non-Invasive</i> Pacemaker	18
Gambar 2.9	Penempatan Elektroda Anterior-Posterior	21
Gambar 2.10	Penempatan Elektroda Sternum-Apex	22
Gambar 2.11	LCD karakter 2 x 16	23
Gambar 2.12	Rangkaian LCD Karakter	23
Gambar 2.13	Konfigurasi Pin ATMega 16	26
Gambar 2.14	Bentuk Pads Pasien	29
Gambar 3.1	Diagram Blok	30
Gambar 3.2	Diagram Alir	32

Gambar 3.3	Mekanisme Alat	33
Gambar 4.1	<i>Output PWM setting 40 mA, 60 PPM</i>	40
Gambar 4.2	<i>Output PWM setting 40 mA, 80 PPM</i>	41
Gambar 4.3	<i>Output PWM setting 40 mA, 100 PPM</i>	41
Gambar 4.4	<i>Output PWM setting 60 mA, 60 PPM</i>	41
Gambar 4.5	<i>Output PWM setting 60 mA, 80 PPM</i>	42
Gambar 4.6	<i>Output PWM setting 60 mA, 100 PPM</i>	42
Gambar 4.7	<i>Output PWM setting 80 mA, 60 PPM</i>	43
Gambar 4.8	<i>Output PWM setting 80 mA, 80 PPM</i>	43
Gambar 4.9	<i>Output PWM setting 80 mA, 100 PPM</i>	43
Gambar 4.10	<i>Output PWM setting 100 mA, 60 PPM</i>	44
Gambar 4.11	<i>Output PWM setting 100 mA, 80 PPM</i>	44

Gambar 4.12	<i>Output PWM setting 100 mA, 100 PPM</i>	45
Gambar 4.13	<i>Output PWM setting 120 mA, 60 PPM</i>	45
Gambar 4.14	<i>Output PWM setting 120 mA, 80 PPM</i>	45
Gambar 4.15	<i>Output PWM setting 120 mA, 100 PPM</i>	46
Gambar 4.16	<i>Output PWM setting 140 mA, 60 PPM</i>	46
Gambar 4.17	<i>Output PWM setting 140 mA, 80 PPM</i>	47
Gambar 4.18	<i>Output PWM setting 140 mA, 100 PPM</i>	47
Gambar 4.19	<i>Output PORTB.2 PPM 60</i>	48
Gambar 4.20	<i>Output PORTB.2 PPM 80</i>	49
Gambar 4.21	<i>Output PORTB.2 PPM 100</i>	50
Gambar 4.22	Input Rangkaian Inverter	51
Gambar 4.23	Output Rangkaian Inverter	52
Gambar 4.24	Phantom Defibrilator Analyzer	53
Gambar 4.25	Modul Non-Invasive Pacemaker	53
Gambar 4.26	Pengukuran Output Modul	53

Gambar 4.27	Grafik Error mA pada 60, 80, 100 PPM	57
Gambar 5.1	Rangkaian Mikrokontroler ATmega16	60
Gambar 5.2	Rangkaian Inverter	63
Gambar 5.3	Rangkaian <i>Dimmer</i>	65
Gambar 5.4	Output PWM (a) dan Arus Pacing(b)	66
Gambar 5.5	Rangkaian Driver Pacing	72
Gambar 5.6	Rangkaian Keseluruhan	74