

## DAFTAR GAMBAR

Gambar I. 1 The Worldwide HMI/SCADA Software and Service Market (Arcweb, 2012) .....	2
Gambar II. 1 PLC <i>Compact</i> Omron CPM1(Wicaksono, 2009).....	8
Gambar II. 2 PLC TSX Micro dari Schneider (Wicaksono, 2009).....	9
Gambar II. 3 Modul <i>power supply</i> dari omron (Wicaksono, 2009).....	9
Gambar II. 4 Modul prosesor dari omron (Wicaksono, 2009).....	10
Gambar II. 5 Modul memori eksternal dari Omron (Wicaksono, 2009) .....	10
Gambar II. 6 Contoh <i>ladder diagram</i> (Wicaksono, 2009).....	12
Gambar II. 7 Posisi HMI dalam sebuah sistem SCADA (Wicaksono, 2012) .....	13
Gambar II. 8 Struktur HMI (Wicaksono, 2012) .....	14
Gambar II. 9 Jenjang Pembentukan <i>Database</i> (Wahyudin, 2005) .....	16
Gambar III. 1 Model Konseptual .....	18
Gambar III. 2 <i>Detail</i> Proses Rancangan SCADA .....	19
Gambar III. 3 Sistematika Pemecahan Masalah .....	22
Gambar IV. 1 Alur Proses Air Minum Dalam Kemasan (Meidika, 2014) .....	25
Gambar IV. 2 Skenario Proses <i>Workstation Filling</i> (Meidika, 2014) .....	26
Gambar IV. 3 Alur Proses <i>Filling</i> (Meidika, 2014).....	28
Gambar IV. 4 Alur Proses <i>Capping</i> (Meidika, 2014).....	29
Gambar IV. 5 Skenario Proses <i>Workstation Sorting</i> (Meidika, 2014) .....	30
Gambar IV. 6 Alur Proses <i>Sorting</i> (Meidika, 2014) .....	32
Gambar IV. 7 Alur Proses <i>Labeling</i> (Meidika, 2014).....	33
Gambar IV. 8 Skenario Proses <i>Workstation Stacking</i> (Meidika, 2014) .....	34
Gambar IV. 9 Rancangan Skenario Proses HMI .....	37
Gambar IV. 10 Struktur Rancangan HMI.....	38
Gambar IV. 11 <i>Login Window</i> .....	38
Gambar IV. 12 <i>Overview Window</i> .....	39
Gambar IV. 13 <i>Workstation Window</i> .....	40
Gambar IV. 14 <i>Database Window</i> .....	40
Gambar IV. 15 <i>Help Window</i> .....	41
Gambar IV. 16 <i>Change Password Window</i> .....	41
Gambar IV. 17 <i>Configure User Window</i> .....	42
Gambar IV. 18 <i>Shutdown Window</i> .....	42
Gambar IV. 19 <i>ODBC Data Source Administrator</i> .....	44
Gambar IV. 20 <i>Creat New Data Source</i> .....	45
Gambar IV. 21 <i>ODBC Microsoft Access Setup</i> .....	45
Gambar IV. 22 <i>New Database</i> .....	46
Gambar IV. 23 <i>Configure ActiveX Control</i> .....	47
Gambar IV. 24 <i>ActiveX Control Installation</i> .....	47

Gambar IV. 25 <i>window communication port setting</i> .....	48
Gambar IV. 26 <i>window OMRONHL topic definition</i> .....	49
Gambar V. 1 <i>Login Window</i> .....	56
Gambar V. 2 <i>Overview Window</i> .....	57
Gambar V. 3 <i>Workstation 1</i> .....	57
Gambar V. 4 <i>Workstation 2</i> .....	58
Gambar V. 5 <i>Workstation 3</i> .....	58
Gambar V. 6 <i>Database Window</i> .....	59
Gambar V. 7 <i>Help Window</i> .....	59
Gambar V. 8 <i>Change Password Window</i> .....	60
Gambar V. 9 <i>Configure User Window</i> .....	60
Gambar V. 10 <i>Shutdown Window</i> .....	60