

Chapter 1.A Basic Principles of PLC Ladder Diagram
 စကားချီး (Fore word)
 PLC အသုံးဝင်မှုနောက်ခံသမိုင်း (Back ground and Functions of PLC)
 1-1 Ladder diagram ၏အခြေခံလုပ်ဆောင်ချက်သဘောတရား
 1-2 Logic လုပ်ငန်းစဉ် (Sequential logic)
 1-3 Block
 1-4 Line များကို ခွဲခြားရေးခြင်းနှင့် ပေါင်းစပ်ရေးခြင်း
 1-5 Explanations on the basic structures in the ladder diagram:
 1-6 All devices in Mitsubishi -plc & DVP- plc
 1-7 Values, Constants [K] / [H]
 1-8 Simplified Ladder Diagram

Chapter 1.B Installation and Wiring
 1B.1. Wiring Guidelines
 Power Input Wiring
 Input Point Wiring
 Practically Wiring
 Output Point Wiring
 Relay Output Wiring Methods
 Transistor Output Wiring Methods

Chapter 2 Installation and the Initial Setup of WPL Soft
 2-WPL Software Installation
 Step by Step Guide

Chapter 3 The Ladder Diagram Editing Mode
 3-The Ladder Diagram Editing Mode
 Icons
 Applications

Chapter 4. Numbering and Functions of Timers (T)
 4-Numbering and Functions of Timers (T)
 4-1 Oscillating circuit
 4-2 Timer Circuit
 4-3
 4- 4 Flashing circuit

4-5 Trigger circuit
 4-6 Delay circuit
 4-7 Output delay circuit
 4-8 Timing extension circuit
 4-9 Forward/ Reverse Control for the Three-Phase Asynchronous Motor
 4-10 Delay OFF Program (အချိန်တစ်ခုစောင့်ဆိုင်းပြီး ပါဝါပိတ်ခြင်း)
 Example 4-11 အချိန်တစ်ခုအားစောင့်ဆိုင်းပြီး (နောက်ကျပြီး) မှ ဖွင့်ပေးခြင်း (Delay ON Program)
 4-12 အချိန်တစ်ခုစောင့်ဆိုင်းပြီးမှ အဖွင့်အပိတ်လုပ်ပေးသည့် အထိန်းပတ်လမ်း
 4-13 အစီအစဉ်အတိုင်းစောင့်ဆိုင်း ခိုင်းရေးခြင်း (မော်တာ ၃ ခုအား အစီအစဉ်တကျ လည်ပတ်စေခြင်း)
 4-14 ဖန်တီးထားသော ငါးပွားမြှူကန်၏ ရေမျက်နှာပြင်ထိန်းချုပ်မှုစနစ်
 4-15 Star-Delta Reduced Voltage Starter Control
 4-16 Automatic Liquids Mixing Control System
 4-17 Performing Accumulative Function with Normal Timer
 4-18 Interesting Fountain
 4-19 Automatic Door Control
 4-20 Burn-in Test System (Timing Extension)

Chapter 5. Numbering and Functions of Counters [C]
 5-ကောင်တာ (Counters)
 5-1 16 bit counters
 5-2 32-bit general purpose addition/subtraction counters C200 ~ C234:
 5-3 High-speed Counters

Chapter 6. Latching & Clear the contacts or the registers
 6-Latching and clear the contacts or the register
 6-2 SET/ RST (Set Reset)

Chapter 7. Master Control Instruction
 7-Master Control Instructions
 7-1 First-in Priority Circuit
 7-2 Selective Execution of Programs
 7-3 MC/MCR - Manual/Auto Control
 7-4 MC/MCR - Manual/Auto Control

Chapter 8. Contact Rising/Falling edge Instructions
 8-Contact Rising/Falling edge Instructions
 8-1 LDP (Rising-edge detection operation)
 8-2 ANDP (Rising-edge series connection)

8-3 ORP (Rising-edge parallel connection)
 8-4 ORF (falling-edge parallel connection)
 8-5 PLS (Rising-edge output) Instruction
 8-6 နောက်ဆုံးလုပ်ဆောင်ချက်အား အသိအမှတ်ပြုသည့် အထိန်းပတ်လမ်း
 8-7 မြေအောက်ကားရုပ်နားသည့်နေရာ၏ အဝင်၊ အထွက်ထိန်းချုပ်မှုစနစ်

Chapter 9. Functions of Special Auxilliary Relays and Special Register
 9. Functions of Special Auxilliary Relays and Special Register
 9-2 Function Group – Monitor Timer
 9-3 Flags

Chapter 10. Basic instruction ENG, NOP, P
 10. Program End Function- END
 10-2 No operation Function –NOP
 10-3 Inverting Operation – INV
 10-4 Pointer Function – P

Chapter 11. Step Ladder Instruction
 11-1 Step Ladder Instructions [STL], [RET]
 11-2 Sequential Function Chart (SFC)
 11-3 How does a Step Ladder Instruction Work?
 11-4 Type of Sequences (Sequences ၏ အခြေခံသဘောတရား)
 11-5 General Rules For Successful STL Branching
 11-6 A Selective Branch/First State Merge Example Program
 11-7 Ladder Diagram
 11-8 Packing Gate System Operation
 11-9 The program design process is outline below

Chapter 12. Conditional Jump
 12. Conditional Jump (CJ)
 Recipe Setting by CJ Instruction

Chapter 13. CALL subroutine & SRET termination of subroutine
 13. CALL subroutine & SRET termination of subroutine
 13-1 ရေလှောင်ကန်ရေအမြင့် ထိန်းညှိပတ်လမ်း (Reservoir Level Control)

Chapter 14. Compare (CMP) Instruction
 14-1 Compare (CMP)

14-2 Zoon compares (ZCMP)
 14-3 ZCP - Water Level Alarm Control
 14-4 The contact type comparison LD
 14-5 The series connection contact type comparison AND*
 14-6 The parallel connection contact type comparison OR *

Chapter 15. Data movement instruction
 15-1 MOV
 15-2 Counter Transfer
 15-3 Block move (BMOV) Instruction.
 15-4 Multiple Points Movement Instruction (FMOV)
 15-5 Data exchange Instruction (XCH)
 15-6 Converts BIN data into BCD (BCD)
 15-7 Converts to BCD data into BIN
 15-8 Converts BCD Data into BIN

Chapter 16. Mixed Analog Input/Output Modules DVP 06XA
 16. The A/D and D/A Conversion
 16-2 Introduction
 16-3 Product Profile and Outline
 16-4 External Wiring
 16-5 Specifications
 16-6 CR (Control Register)
 16-7 A/D and D/A Conversion Curve
 16-8 The Applications