

Chapter 1 Introduction



1.1. Characteristics of IEC 1131-3 language.....	1-1
1.2. Language type	1-1

1. Introduction

This manual describes the language for the G Series range of PLC.

GLOFA PLC is based on the international standard language defined in IEC (International Electrotechnical Commission) 1131-3.

1.1. Characteristics of IEC 1131-3 language

Main characteristics introduced to IEC language are as below.

- . Support to various and strong data type.
- . Top-down or bottom-up design is available by adapting the program configuration element such as function, function block, and the PLC program can be prepared structurally.
- . The program prepared by the user can be librarized to be used for other applications so that the software is reused.
- . The user can select the most appropriate language for his application, since various languages are supported.

1.2. Language type

PLC language standardized by IEC consists of two graphical languages, two textual languages and SFC.

- . Graphical language
 - a) LD(Ladder Diagram) : Relay logic type language
 - b) FBD(Function Block Diagram) : Language expressing the program linked the block function
- . Textual language
 - a) IL(Instruction List) : Language of the assembly language type
 - b) ST(Structured Text) : High level language of the Pascal type
- . SFC(Sequential Function Chart)

G Series PLC supports the language of IL, LD, and SFC.

MEMO

