

Chapter 1 Introduction

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1. Introduction

This manual describes the language for GM1~GM5 models of GLOFA 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, or program and the PLC program can be prepared structurally.
- The program prepared by the user can be librarized to be used for other circumstance so that the software is reused.
- The user can select proper language 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)

GLOFA PLC supports the language of IL, LD, and SFC.

