General Specifications

LL50A Parameter Setting Software with Ladder Program Building Function and Network Profile Creating Function

UTAdvanced™

Functional Enhancement

GS 05P05A01-01EN

■ Overview

The LL50A Parameters Setting Software is designed to build and set parameters, program pattern, ladder programs, and the like of the UTAdvanced digital indicating controllers from a PC. The tuning and monitoring of ladder programs are possible during communication with the controllers.

■ Main Features

A Variety of Connection Methods
In addition to a connection with a Light Loader (dedicated) adapter, connections with a communication terminal on the rear panel and a dedicated cable are available. As for the connection with a dedicated cable, settings can be made when the controller power is not energized.

Parameter Setting Function
This function allows for setting and changing the parameters of the controller. In case of the UT75A, allows for setting the program pattern.

Program Pattern Setting
This function allows for setting the program patterns of UP series program controllers. (UP55A, UP35A, and UP32A) Creates up to 99 program patterns for UP55A and up to 4 program patterns for UP35A/UP32A.

Tuning Function
This function allows for adjusting the PID parameters while watching the PV, SP, and OUT trend graphs. (Except UM33A)

Ladder Program Building Function
This function allows for building the input and output signal sequences of the controller using the ladder program. Various calculations are possible using basic and application commands. (Except UM33A)

Network Profile Creating Function
This function enables to create an Electronic Device Data Sheet for PROFIBUS-DP communication. Excluding the dual-loop type of UT32A (UT32A-D).

■ Functions

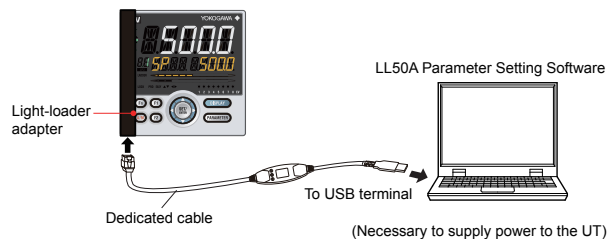| Parameter setting function	Parameter setting, Display level switching
Program pattern creating	Repeat action, Wait action setting PV event, Time event setting
Ladder program building function	Ladder program building Custom ladder instruction building Program check
Custom display building function	The contents displayed on the screen of UT75A can be customized.
Monitoring function	Tuning, Registor monitoring Ladder program monitoring
Network Profile Creating function	Profile creating
Other functions	File management Conserving function of CSV format Communication processing Upload/download Communication comparison Reset to factory default Reset to user default Communication condition setting, Print

■ Applicable Controllers

UT75A digital indicating controller
UT55A digital indicating controller
UT52A digital indicating controller
UT35A digital indicating controller
UT32A digital indicating controller
UP55A program controller
UP35A program controller
UP32A program controller
UM33A digital indicator with alarms (Excluding the UM33A-S)
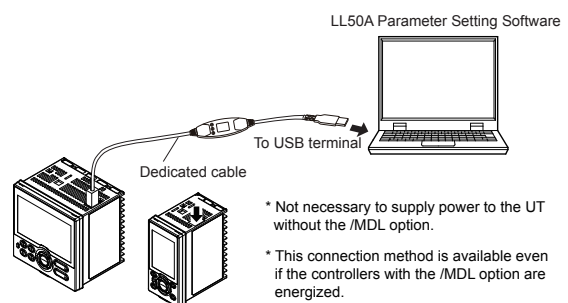
■ Connection between PC and Controller

Connection with a Dedicated Adapter
Connect the dedicated cable to the dedicated adapter and then attach the dedicated adapter to the front of the controller. (The adaptor cannot be used on the controllers with the /MDL option.)
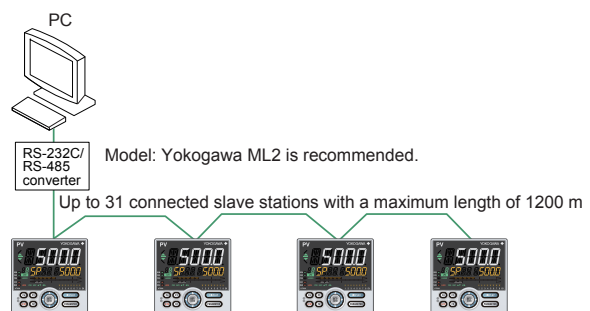

Light-loader adapter
LL50A Parameter Setting Software
To USB terminal
Dedicated cable
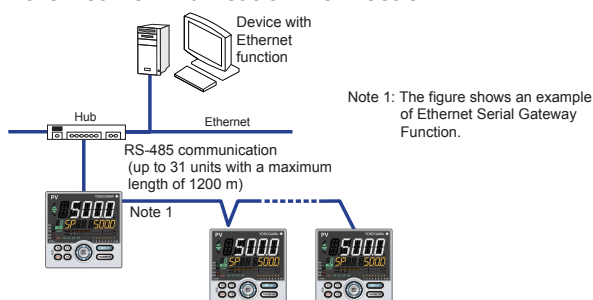(Necessary to supply power to the UT)

Connection with Dedicated Cable
This connection allows for setting parameters, writing ladder programs, and the like when the controller is not energized.

LL50A Parameter Setting Software
To USB terminal
Dedicated cable

* Not necessary to supply power to the UT without the /MDL option.

* This connection method is available even if the controllers with the /MDL option are energized.

RS-485 Communication Terminal Connection

PC
RS-232C/ RS-485 converter
Model: Yokogawa ML2 is recommended.
Up to 31 connected slave stations with a maximum length of 1200 m

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9th Edition Nov.22, 2018 (YK)

Ethernet Communication Connection

Note 1: The figure shows an example of Ethernet Serial Gateway Function.

An Ethernet connection is also possible using controllers with an RS-485 communication function and an Ethernet/RS-485 converter (Yokogawa VJET is recommended).

■ Operating Environment

PC (System Requirements)

Operating system

Windows 7 Professional (32-bit and 64-bit versions)

Windows 8.1 Pro Update (32-bit and 64-bit versions) (Desktop type)

Windows 10 Pro (32-bit and 64-bit versions)

Windows 7/8.1/10 supports a Japanese edition and English version.

CPU

Pentium 4 Processor 3.0 GHz or faster

Pentium D Processor 2.6 GHz or faster

Pentium Core 2 Duo Processor 1.8 GHz or faster

Pentium Dual-Core Processor 1.6 GHz or faster

Main Memory

2 GB or more

Hard Disk

Program storage capacity: 100 MB or more

.NET Framework 4.0 SP1 storage capacity: 620 MB or more

Display

1024 x 768 pixels or more

Color: 256 colors or more

Communication port

Communication with a dedicated cable: USB port (1 channel)

RS-485 communication: RS-232C port(1 channel). To perform RS-422/485 communication with a connected device, use a converter. (YOKOGAWA ML2 recommended)

Ethernet communication: 10BASE-T/100BASE-TX.

Peripherals

Printer (paper size for print: A4-size, or letter-size on the English version.)

Dedicated Adapter (L3502LP)

Communication method:

Non-contact, two-way, serial optical communication on the controller side

Power supply:

Supplied from the USB bus power

Rated input voltage: 4.75 to 5.25 V DC, 100 mA DC (including the dedicated cable)

Ambient temperature: 0 to 50°C

Ambient humidity: 20 to 90%RH (No condensation)

Transport and storage conditions:

-20 to 70°C, 5 to 90%RH (No condensation)

Dust-proof and drip-proof: Unsupported

Dedicated Cable (A1059UR)

USB serial converter is embedded

Compliant with the USB Specification Rev. 1.1

USB Series "A" plug on the PC side

Dedicated plug (5-pin) on the adapter side

Cable length: About 2.7 m

Note: Directly insert the USB plug into a USB port on the PC.

■ EMC Standard

CE marking: EN61326-1 Class A, Table 2
(For use in industrial locations)

EMC Regulatory Arrangement in Australia and New Zealand: EN55011 Class A, Group 1

■ Package Items

LL50A Installation Manual: One

Dedicated cable (A1059UR) and dedicated adapter (L3502LP): One

■ Model and Suffix Codes

Model	Suffix code	Description
LL50A	-00	Parameter Setting Software with Ladder Program Building Function

■ Items to Specify when Ordering

Clearly state the model and suffix code.

LL50A Parameter Setting Software

Download the latest version of the software from the following URL;

http://www.yokogawa.com/ns/ll50a/download/

User's Manual

Product user's manuals can be downloaded or viewed at the following URL. To view the user's manual, you need to use Adobe Reader 7 or later by Adobe Systems.

URL: http://www.yokogawa.co.jp/ns/ut/im/

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