

General Specifications

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



GS 05P05A01-01EN

Release Number: R5

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 pattern. (UP55A, UP35A only)

30 program patterns for UP55A and max. 4 program patterns for UP35A.

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 creates an Electronic Device Data Sheet for PROFIBUS-DP communication. (UT75A, UT55A, UT35A, UP55A and UP35A only)

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, Register 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

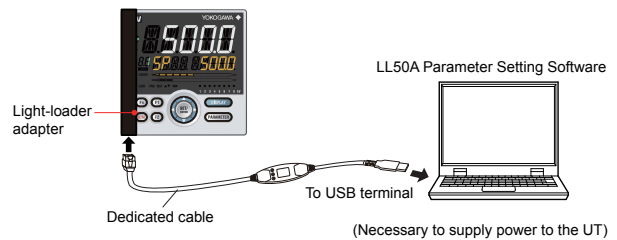
Applicable Controllers

- 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
- UM33A digital indicator with alarms

Connection between PC and Controller

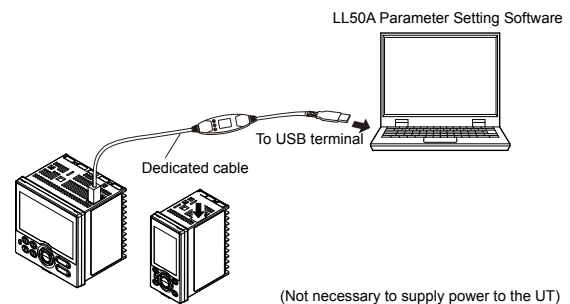
Connection with a Dedicated Adapter

Connect the dedicated cable to the dedicated adapter and then attach the dedicated adapter to the front of the controller.



Connection with Dedicated Cable

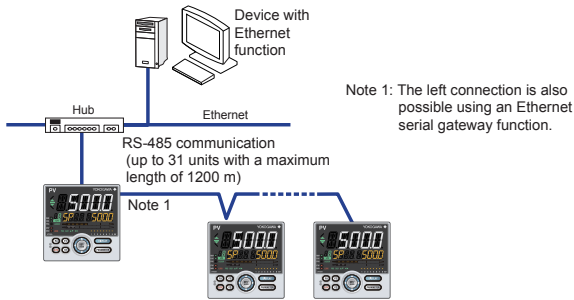
This connection allows for setting parameters, writing ladder programs, and the like when the controller is not energized.



RS-485 Communication Terminal Connection



Ethernet Communication Connection



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

Applicable OS

- Windows XP Professional (with Service Pack 2 or later)
- Windows Vista Business (with Service Pack 1)
- Only the 32 bit version of each of the above OSs
- Windows 7 Professional (32-bit and 64-bit versions)
- Windows 8 Pro (32-bit and 64-bit versions) (Desktop type)
- In case of Windows XP/Vista, .NET Framework 3.5 SP1 is installed.

Recommended CPUs

- Pentium 4 Processor 2.4 GHz or higher (3.0 GHz or higher in Windows Vista Business, Windows 7 Professional and Windows 8 Pro)
- Pentium D Processor 2.6 GHz or higher
- Pentium Core 2 Duo Processor 1.8 GHz or higher
- Pentium Dual-Core Processor 1.6 GHz or higher

Recommended Main Memory

- Windows XP Professional: 512 MB or more
- Windows Vista Business, Windows 7 Professional and Windows 8 Pro: 2 GB or more

Hard Disk Space

- Program storage capacity: 100 MB or more
- .NET Framework 3.5 SP1 storage capacity: 620 MB or more

Display

- 1024 x 768 pixels or more
- Color: 256 colors or more

Communication Port

- For communication with a dedicated cable, use an USB port.
- For communication via a RS-485 communication terminal, use a RS-232C port (An RS-232C/RS-485 converter is required; Model ML2 is recommended)
- For Ethernet communication, use 10BASE-T /100BASE-TX.

Peripheral Devices

- One CD-ROM drive (for installation)
- Printer (for printing A4-size paper or letter-size paper for the English version)

Dedicated Adapter

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

- USB serial converter is incorporated
- 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)
- C-tick mark: EN55011 Class A, Group 1

■ Package Items

- CDs: Two
 - LL50A software/USB conversion driver
 - LL50A User's Manual
- LL50A Installation Manual: One
- Dedicated cable and dedicated adapter: 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.

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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