Overview
The LL50A Parameters Setting Software is designed to build and set parameters, 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.

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

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.

Network Profile Creating Function
This function creates an Electronic Device Data Sheet for PROFIBUS-DP communication.

Functions

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<td>Network Profile Creating function</td>
<td>Profile creating</td>
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Other functions
- File management
- Conserving function of CSV format
- Communication processing
- Upload/download
- Communication condition setting
- Print
- Reset to factory default
- Reset to user default
- Ethernet function

Applicable Controllers
- UT55A digital indicating controller
- UT52A digital indicating controller
- UT35A digital indicating controller
- UT32A digital indicating controller

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
Device with Ethernet function
- Model: Yokogawa ML2 is recommended.
- Up to 31 connected slave stations with a maximum length of 1200 m

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).

Note 1: The left connection is also possible using an Ethernet serial gateway function.
### 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
- **.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)
- 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: 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

<table>
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<tr>
<th>Model</th>
<th>Suffix code</th>
<th>Description</th>
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<tr>
<td>LL50A</td>
<td>-00</td>
<td>Parameter Setting Software with Ladder Program Building Function</td>
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</table>

### Items to Specify when Ordering

Clearly state the model and suffix code.

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