Softlog Systems (2006) Ltd.

ICP2-GANG

Production Quality In-Circuit 4 Channel Gang Programmer

Quick Start

1   Contents of The Base Package

- ICP2-GANG programmer unit
- Power supply 100-240VAC/12VDC
- USB cable
- RS-232 cable
- Sub-D 15-pin mating connector (4 pcs)
- Software CD
- USB installation manual

2   Host Computer Requirements

- Pentium-100 or greater IBM PC compatible
- VGA or higher resolution (1024x768 is recommended)
- 64MBytes of RAM
- Windows-95/98/ME/2000/XP/NT
- At least 20MBytes of hard disk space
- CD-ROM drive
- Free RS-232 or USB port

3   Installation

3.1   Preliminary Installation

3.1.1   Software Installation

To install the software supplied, follow the steps below:

- Insert ICP family CD in the CD-ROM drive. An opening screen appears
- Click "Install ICP for Windows" and follow the on-screen instructions

If the opening screen does not appear:
- Double-click on the "My Computer" icon
- Double-click the icon for your CD-ROM drive
- Double-click "IcpSetupWithDll.exe"

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3.1.2   Preliminary Hardware Installation

- Connect the ICP2-GANG to power supply
- Connect RS-232 or USB cable between PC and the programmer
- Install USB driver according to "ICP2 USB Driver Installation" manual
  NOTE: USB driver installation is not required for operation with RS-232 port

3.2   Initial Software Setup

3.2.1   Run "ICP_Win.exe" Program

- Double-click "ICP_Win" icon
- Press "**No**" if message "Newer firmware is available. Upgrade now?" appears

3.2.2   Select Programmer

- Open "Programmer/Select Programmer" and select ICP2-GANG
- Press OK
- Select "Number of Boxes" according to number of programmers you are going to use in the chain
- Press OK

3.2.3   Select COM Port

- Open "Communication / RS-232/USB/Bluetooth COM" and select COM port your programmer attached to
- Press OK
- Press "**No**" if message "Newer firmware is available. Upgrade now?" appears
- "About" window should appear after communication is done

3.2.4   Save Configuration

- Select "File/Save Configuration"
- Press Alt-F4 to exit the software

3.3   Assigning Address to Programmer

Skip this paragraph if you use only one programmer (up to 4 channels)

IMPORTANT: Only **one** programmer box should be connected during "Assign Address" procedure (**no** chain)

NOTES: Programmer comes with default address 1 therefore box number 1 does not require address assignment

It's recommended to use RS-232 connection for address assignment operation since COM number for USB connection may change for different programmer units (boxes)

3.3.1 Connect programmer to the PC

3.3.2 Run "ICP_Win" software

3.3.3 Press "**No**" if message "Newer firmware is available. Upgrade now?" appears

3.3.4 Repeat COM port selection (see 3.2.3) if communication error occurs.
NOTE: if programmer address is not 1 then communication error will occur during connection

3.3.5 Open "Programmer/Assign Address to GANG Box"

3.3.6 Press button "BoxAddress = XX" to assign a new address to the connected programmer

3.3.7 Place sticker with box address (number) on the programmer

3.3.8 Connect the next programmer to be learned to the PC

3.3.9 Repeat steps 3.3.1 - 3.3.7

3.3.10 Press Alt-F4 to exit the software

3.4 Final Hardware Installation (Chain)

Skip this paragraph if you use only one programmer (up to 4 channels)

3.4.1 Connect programmer **number 1** to the PC with USB or RS-232 cable

3.4.2 Connect RS-232 **output** of the 1-st programmer to RS-232 **input** of the 2-nd programmer

   IMPORTANT: don't leave non-terminated output of RS-232 cable

3.4.3 Connect RS-232 output of the 2-nd programmer to RS-232 input of the 3-nd programmer and so on

3.5   Final Software Setup: Firmware Upgrade

3.5.1 Run "ICP_Win" software

3.5.2 Press "**Yes**" when message "Newer firmware is available. Upgrade now?" appears

3.5.3 Wait until firmware upgrade is complete for all channels

3.5.4 Your programming system is ready for use

4   Getting Started

This section presents an example to help you become familiar with the ICP2-GANG programmer and some commonly used functions

4.1   Preparing Environment and Transferring Environment to Programmer

4.1.1 Run "Programmer/Quick Start Wizard" and follow the Wizard

4.1.2 Select programmer and press "Next"

4.1.3 Select GANG channels and press "Next"

4.1.4 Select COM and press "Next"

4.1.5 Select Device (PIC)
From the "Device" list select a device to be programmed and press "Next"

4.1.6 Set Voltages and press "Next"

4.1.7 Mark "Save Configuration" and press "Next"

4.1.8 Mark "Run Environment Wizard" and press "Next"

4.1.9 Load (open) a HEX file. NOTE: The programmer software is able to read ID information, data memory (EEPROM) contents and configuration bits from the HEX file

4.1.10 Save Environment
- Press on "…" button
- Type in environment name, 16 characters max
- Press "Save"
- Press "Next"

4.1.11 Transfer Environment to Programmer
- Press on "Transfer Environment" button, select your environment and press "Open"

- Wait until environment is transferred to all channels
- Press "Next"

4.1.12 Switch to Standalone Mode

- Press on "Standalone Mode" button
- Press "Finish"
- Your system is ready for programming

4.2 Programming Devices

4.2.1 Switch to **standalone mode** by clicking "Standalone Mode" tab on the ICP Control Center

4.2.2 Save configuration by selecting "File/Save Configuration"

4.2.3 Load serialization file (if required) by selecting "Serialization/Load File…"

4.2.4 Connect devices to be programmed

4.2.5 Press F5

4.2.6 Repeat steps 4.2.4 - 4.2.5 for more devices