IMPORTANT NOTE: Starting from Jul-2018 Softlog Systems manufactures ICP2-Portable**(G3)** programmer additionally to existing ICP2-Portable. Due to nearly full compatibility (mechanical and electrical) both of them are usually referred as ICP2-Portable

ICP2-Portable

Production Quality In-Circuit Service Programmer

Quick Start

1 Contents of the Base Package

- ICP2-Portable programmer unit
- USB cable
- Sub-D 15-pin mating connector
- USB installation manual
- Alkaline battery - 3 or 4 pcs

2 Host Computer Requirements

- PC Windows 7/8/10
- Free USB port

3 Installation

3.1 Preliminary Installation

3.1.1 Software Installation

IMPORTANT: don't connect ICP2-Portable to USB port at this stage

To install the software supplied, follow the steps below:

- Visit our site and get the latest software: http://www.softlog.com → Support
- Install ICP for Windows (default directory: C:\Softlog\IcpWin)

3.1.2 Hardware Installation (optional)

- Open ICP2-Portable
- Insert three alkaline batteries as indicated by the polarity symbol (+). Press button PWR for validation before closing the cover
- Close the cover

3.1.3 USB Driver Installation

- Install USB driver according to “ICP2 USB Driver Installation” instruction. Note:
  - ICP2-Portable uses “CP210x Driver”
  - ICP2-Portable(G3) uses FTDI Driver
- Connect USB cable between PC and the programmer. Wait until USB driver installation is complete

3.2 Initial Software Setup

3.2.1 Run ”ICP for Windows” (Icp_Win.exe)

- Double-click "ICP for Windows" icon
- Press “**No**” if message “Newer firmware is available. Upgrade now?” appears

3.2.2 Select Programmer

- Open “Programmer → Select Programmer” and select ICP2-Portable
- 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 “Yes” if message “Newer firmware is available. Upgrade now?” appears and follow on-screen instructions

3.2.4 Save Configuration

- Select “File → Save Configuration”

4 Getting Started

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

4.1 Preparing Environment and Transferring Environment to Programmer

Run “Environment → Environment Wizard” and follow on-screen instructions as shown below:

4.1.1 Select programmer and press “Next”

4.1.2 Select desired environment number (1 to 6) and press “Next”

4.1.3 Select Device

Type-in a device name and press “Next”

4.1.4 Set Voltages and press “Next”

4.1.5 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

4.1.6 Save Environment

- Press on “…” button
- Type in environment name, 16 characters max
- Press “Save”
- Press “Next”

4.1.7 Transfer Environment to Programmer

- Press on “Transfer Environment” button, select your environment and press “Open”
- Wait until environment image is transferred to the selected environment
- Press “Next”

4.1.8 Switch to Standalone Mode

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

4.1.9 Save configuration: “File → Save Configuration”

4.1.10 Repeat “Environment Wizard” for more environments

4.2 Programming Devices from PC (Standalone Mode)

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

4.2.2 Save configuration: “File → Save Configuration”

4.2.3 Select desired environment number (“ICP2-Portable Environment” window)

4.2.4 Optional: inspect the transferred environment as follows:
- Press on “Step 1: Get Environments Info”
- Double-click on “ENV. x”

4.2.5 Connect device to be programmed

4.2.6 Press F5

4.2.7 Repeat steps 4.2.34.2.5 - 4.2.6 for more devices

4.3 Programming Devices without PC

4.3.1 Disconnect USB cable

4.3.2 Press on PWR button

4.3.3 Select desired environment number by pressing on ENV button

4.3.4 Connect device to be programmed

4.3.5 Press GO button

4.3.6 Repeat steps 4.3.4 and 4.3.5 for more devices

5 Appendix A: LEDs Behavior

###	*LED Name*	*Color*	*LED Behavior*
1.	POWER	**Blue**	ON
2.	LOW BATTERY	**Red**	• Battery is normal: OFF • Battery is low: ON • "GO" button is pressed & battery is very low: no programming is allowed, blinks in parallel to FAIL LED
3.	SERIALIZATION	**Green**	• Serialization = OFF: OFF • Serialization = ON & S/N (serial numbers) = OK: ON • Serialization = ON & no S/N: permanent slow blink • Serialization = ON, no S/N & "GO" button is pressed: no programming is allowed, blinks in parallel to FAIL LED
4.	COUNTER < 10	**Red**	• Counter < 10: ON • Counter = 0: permanent slow blink • Counter = 0 & "GO" button is pressed: no programming is allowed, blinks in parallel to FAIL LED
5.	Environment (1 of 6 LEDs)	**Green**	• Environment is selected & OK: ON • Environment is selected & invalid: permanent slow blink • Environment is invalid & "GO" button is pressed: no programming is allowed, blinks in parallel to FAIL LED
6.	PASS	**Green**	• Operation-in-progress: PASS and FAIL ON • OK: PASS ON • Verification error: FAIL ON • Other programming errors: FAIL blinks slowly with other LED(s) if applicable
7.	FAIL	**Red**	