

Standard Accessories

EPP-4 Memory Programmer main unit x1, USB cable x1, DC 12V/2A adaptor x1, PC Software, drivers and manuals on CD-ROM x1



Main unit

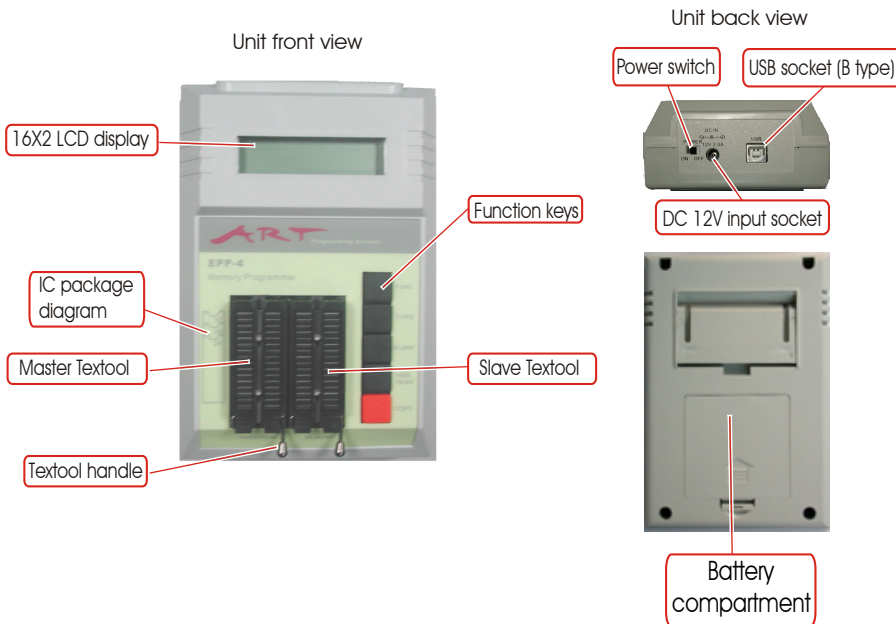


Adaptor



USB cable

Introduction

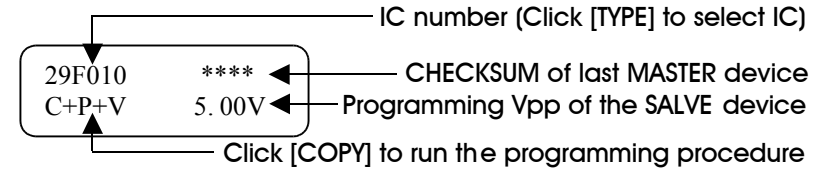


Attention

1. It is preferred to use an internal USB port of your PC. External USB ports are not recommended because of shared bandwidth and possible compatability issues of other USB devices.
2. In stand-alone mode the source IC should be placed in the in the Master textool and the target IC in the Slave textool. In PC mode operation the Slave textool is used for all operations.

Stand-Alone mode Operation

Operation Display



Function Keys action:

- [FUNC.] : Select device Vendor / Programming Procedure
- [TYPE] : Select device number
- [BLANK] : Blank Check with SLAVE device
- [VER./SUM] : Get the sum of the MASTER and verify with the SLAVE
- [COPY] : Program with present settings

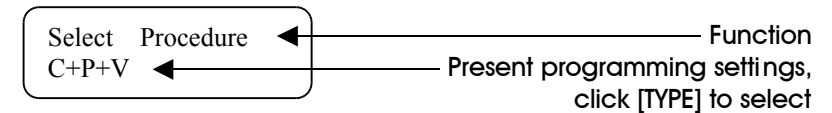
Select device Vendor (*1)



Function Keys action:

- [FUNC.] : Select device Vendor / Programming Procedure
- [TYPE] : Select device number
- [BLANK] : No action
- [VER./SUM] : Confirm device vendor, back to Main display
- [COPY] : No action

Programming Procedure



Function Keys action:

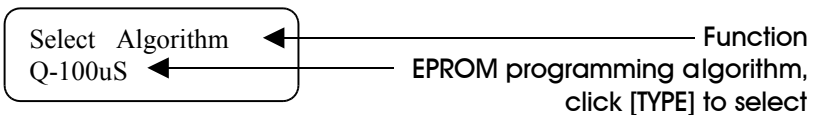
- [FUNC.] : Select device Vendor / Programming Procedure
- [TYPE] : Select programming procedure. (default: C+P+V)
- [BLANK] : No action
- [VER./SUM] : Confirm programming procedure, back to Main display
- [COPY] : No action

Programming procedures

- E+C : Erase+Blank Checking
- E+C+P+V : Erase+Blank Checking+Program+Verify
- E+C+P+V+T : Erase+Blank Checking+Program+Verify+Protect
- P+V+T : Program+Verify+Protect
- P+V : Program+Verify
- C+P+V : Blank Checking+Program+Verify (default)

Stand-Alone mode Operation

EPROM (27xxx) Programming Algorithm



Function Keys action:

[FUNC.] : Select device Vendor/ Programming Procedure / Programming Algorithm / EPROM Programming Vpp

[TYPE] : Select EPROM programming algorithm

[BLANK] : No action

[VER./SUM] : Confirm EPROM programming algorithm, back to Main display

[COPY] : No action

EPROM programming algorithms

Q-100us : Quick Mode Pulse 100uS. (default)

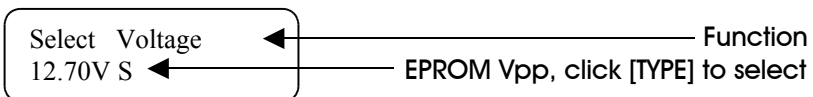
Q-50uS : Quick Mode Pulse 50uS.

N-100uS : Snap Mode Pulse 100uS.

I-500uS : Intelligent Mode Pulse 500uS.

I-1mS : Intelligent Mode Pulse 1mS.

EPROM Programming Vpp (* 4)



Function Keys action:

[FUNC.] : Select device Vendor / Programming Procedure/ Programming Algorithm / EPROM Programming Vpp

[TYPE] : Select EPROM programming Vpp (default: 12.70V)

[BLANK] : No action

[VER./SUM] : Confirm EPROM programming Vpp, back to Main display.

[COPY] : No action

EPROM programming Vpp

12.00V : VPP= 12.0V

12.50V : VPP= 12.5V

12.70V : VPP= 12.7V (default)

13.00V : VPP= 13.0V

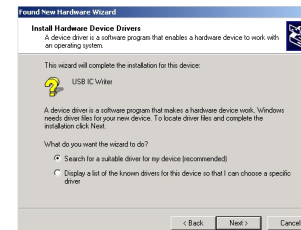
Install software and driver

1. Set Font Size to [small fonts] (96 dpi) to have the optimal display.
 - 1.1 Click the right button on the desktop. -> Select the [Properties] at the bottom of the function menu.
 - 1.2 Select [Settings] and then click the [Advanced] to set Font Size.
2. Install the software before connecting the EPP-4 to the PC.
 - 2.1 Insert the software CD into your CD-ROM drive. Normally the installation program will start automatically (if Auto Run is enabled for your CD-drive). Follow the instructions to complete installation.
 - 2.2 If Auto Run doesn't work, click [Setup.exe] in the CD directory to start the installation.
3. Install the driver for the EPP-4 hardware.
 - 3.1 Make sure the EPP-4 power is [OFF]. Connect the power adapter to the EPP-4 and a power outlet.
 - 3.2 Connect the USB cable to PC USB port and to the programmer USB port.
 - 3.3 Turn the EPP-4 power to [ON]. Windows will now start the [Found New Hardware Wizard].
 - 3.4 Install Hardware Device Driver
 - > Search for a suitable driver for my device (recommended)
 - 3.5 Select Optional search locations
 - > CD-ROM drives
 - 3.6 Driver Files Search Result
 - > Windows will find a driver for this device ... \driver\flashwriter.inf
 - 3.7 Click [Finish] in the Found New Hardware Wizard

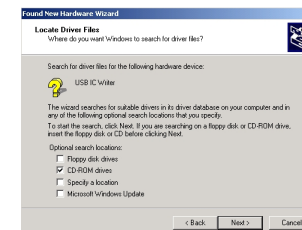
The EPP-4 software and drivers have now been installed and the unit is ready for usage.



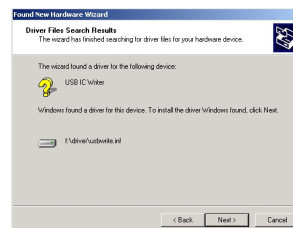
[3.3]



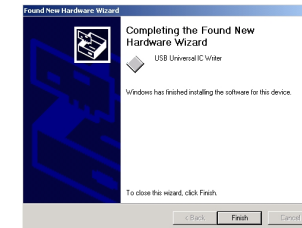
[3.4]



[3.5]



[3.6]



[3.7]

Programming Systems B.V.:
 Telephone : +31-40-248 26 35
 Fax: +31-40-248 02 95
 Website: www.artbv.nl
 E-mail: support@artbv.nl

Operation window

Programming source

- Load from PC
- Verify source IC
- Save file
- Read from source IC
- Edit file

Exit program

Parameters

File: C:\Program Files\Writer\Flash_Writer\Flash_Writer.exe

Type: Load, Read, Edit, Save

Device: ST 29F040B

DeviceSum: 036F0336

IC manufacturer, type number and package

Process

Erase, Check, Prog, Verify, Prot

0% 50% 100%

Progress bar

Run, Stop

Program process & options

- Erase device
- Blank check
- Program device
- Verify device
- Protect / security

Source file editing

8bits HEX display

16bits HEX display

Buffer & file information

Parameter

8 Bits, 16 Bits, Buffer Information

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F																																																															
00000000	0448CF6D	5615863C	4C2CC884	66F3F3DA	00000010	C1CD3E64	4218F73B	FF753FA1	8827EAE0	00000020	10905E17	7A8FB303	F1775946	8FB7D000	00000030	F885DF76	ADAFB9AB	5F0C0000	10685145	00000040	904A38FA	00000050	21B37C0C	F1ACD5F9	00000060	52AF802A	A047EF49	F7398EBD	F195F08D	00000070	D84848BC	B191D6BD	5941368C	6074A2F7	00000080	08EBF555	56F7874D	58946D	D5B7AC69	60	00000090	E73771A9	997700FA	CD107505	D803576E	000000A0	ABD3DC5F	61A730D2	8E338A	AD07E84E	5D	000000B0	2798AA27	0B230876	751A05BA	FD646400	000000C0	8600159C	A96121E6	1917E1B1	1C37874A	000000D0	020852A9	5E24FE	BBA049	620E9E89	D377	000000E0	D8A18694	8802589A	577E13A2	586129A1	000000F0	E420888D	ADD0C82D	08681A07	2C186840	F6

Address of data
Click and enter new address.

HEX code Display
Click to enter hexadecimal data.

ASCII code Display
Click to enter text.

Exit edit window

Sum, Block, Fill, Ok

Select IC number

8/16/32 Bits

Load file

Save file

Get Check Sum

Get data block checksum

Block Process

Datablock - Move/Copy/Swap

Fill Data

Data block - Fill

- Confirm changes
- Cancel changes
- Set data block range by load file size
- Set data block range by maximum size of buffer
- Set data block range by selected IC size