PICCOLO

1. PICCOLO

PICCOLO is entry level, low cost development programmer for Microchip PIC microcontrollers with Flash memory.

PICCOLO directly supports devices with 18 pins (e.g. PIC16F84/84A, PIC16F627/628, PIC16C84 a PIC16F83). Other Flash PIC parts including PIC MCUs in non-DIP packages can be programmed using built-in **In-Circuit Serial Programming** (ICSP) connector and ICSP cable which is a standard part of PICCOLO package.

Software for the programmers runs on Windows 95/98/ME/2K/XP. List of currently supported microcontrollers and possible updates to this manual are available at **http://www.pic-tools.com/**.

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1.1. Technical specification

- Communicates with PC using standard parallel port (LPT)
- Power supply of 14..20 V DC, min. 200 mA (e.g. common 12 V, 500 mA, non-stabilized adaptor), 2.1 mm coaxial connector with either polarity
- Operating temperature: 5 to 50 °C
- Relative humidity (operating): max. 90 %

1.2. Package contents for PICCOLO

- Programmer
- ICSP cable
- CD-ROM with software and documentation
- This manual

2. Hardware installation

Turn off the computer. Connect the programmer to its parallel port. Connect the power supply. Power is indicated by a green LED. Turn the computer back on.

3. Software installation

Insert the installation CD-ROM ASIX. If the inital screen is not displayed automatically, open `Index.htm` or `ReadMeFirst!.rtf` file located in the CD-ROM root directory manually and follow the instructions to install software for ASIX programmers - UP.

4. Hardware operation

Turn off both the computer and programmer any time you are about to connect or disconnect the programmer.

Part to be programmed is to be inserted into the socket so that its pin 1 corresponds with pin 1 of the socket.

Do not handle the part when it is being programmed or read! Operation in progress is indicated by yellow LED.

5. ICSP programming

Using ICSP (In-Circuit Serial Programming) it is possible to program the part directly in the target circuitry.

The application must meet certain conditions described in detail at CD-ROM ASIX and **http://www.pic-tools.com/**.

ICSP mode option must be turned on in the software.