# 8-bit Microchip microcontroller PIC16F630

**Bestelcode: PIC16F630-I/P**

This powerful (200 nanosecond instruction execution) yet easy-to-program (only 35 single word instructions) CMOS Flash-based 8-bit microcontroller packs Microchip's powerful PIC® MCU architecture into a 14-pin package and features 1 comparator and 128 bytes of EEPROM data memory. This device is easily adapted for automotive, industrial, appliances and consumer entry-level product applications that require field re-programmability.

# Specificaties

- Performance
    - o Only 35 single-word instructions
    - o Direct, indirect and relative addressing modes for data and instructions
    - o Operating speed:
        - Internal oscillator
            - 4 MHz internal clock
            - 1 µs instruction cycle
        - External oscillator
            - 20 MHz
            - 200ns instruction cycle
    - o In-Circuit Serial Programming™ (ICSP™)
    - o Programmable code protection
    - o 12 I/O pins with individual direction control
        - High current sink/source for direct LED drive
        - Wake-on-change
        - Weak pull-ups
    - o Timer 0: 8-bit timer/counter (TMR0) with 8-bit programmable prescaler
    - o Timer 1: 16-bit timer/counter with external gate input mode
    - o Analog comparator module
    - o Power-Saving sleep mode
    - o Wake-up from sleep on pin charge
    - o 1024 words Flash program memory
    - o 64 bytes SRAM data memory and 128 bytes EEPROM data memory
- Package
    - o 8 pin DIL version
    - o Operating voltage: 2V to 5.5V
    - o Operating current:
        - 8.5 µA @ 2V, 32kHz, typical
        - 100 µA @ 2V, 1MHz, typical
    - o Standby current:
        - 1nA @ 2V, typical

Can be programmed with Velleman VM134 (=K8076) and our USB "in-circuit" programmer PICKIT2