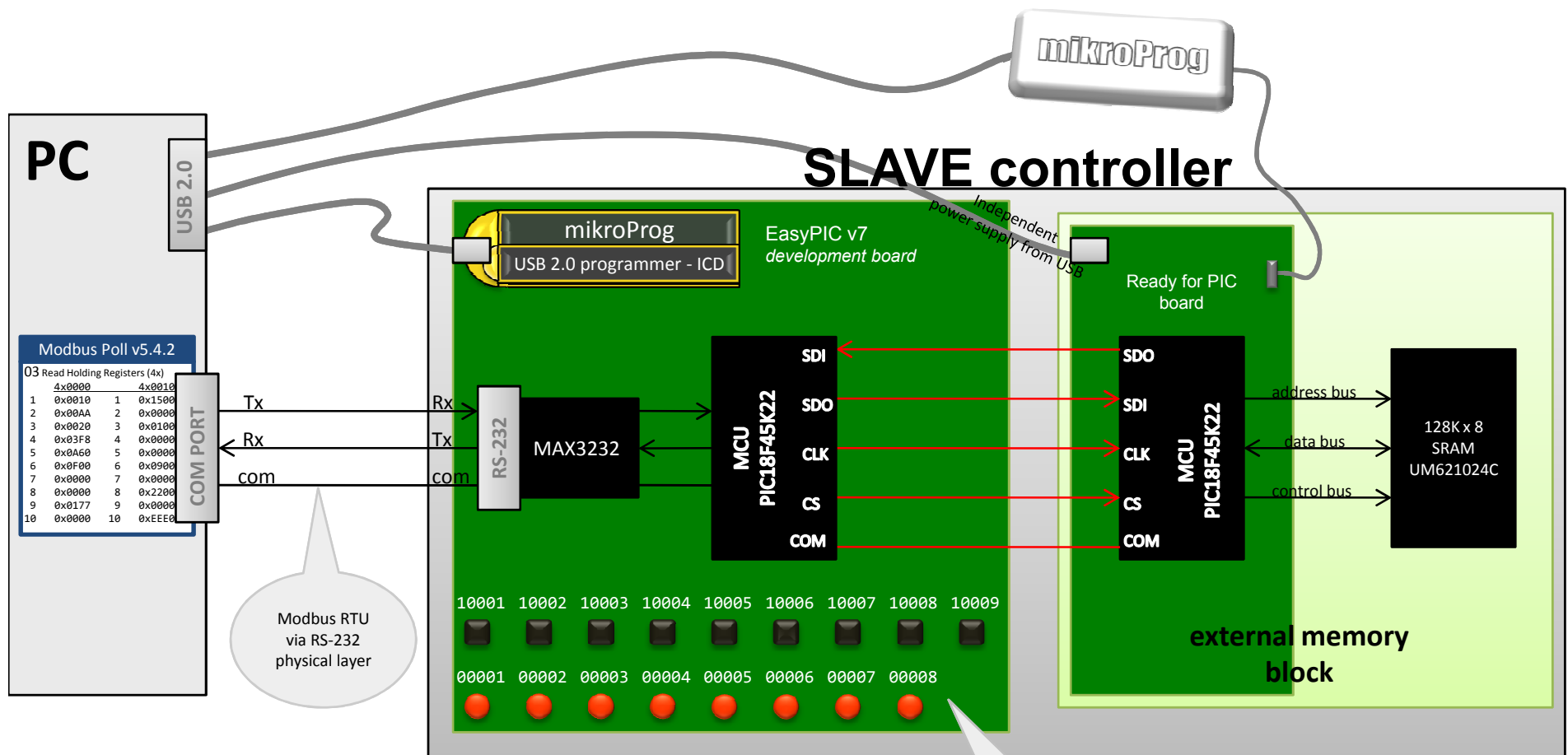


Development tools and testing environment - detailed block schematic



PC

USB 2.0

SLAVE controller



Modbus Poll v5.4.2

| 03 Read Holding Registers (4x) | | | |
|--------------------------------|----------|---------------|-------------|
| Address | Quantity | Start Address | End Address |
| 1 | 0x0010 | 1 | 0x1500 |
| 2 | 0x00AA | 2 | 0x0000 |
| 3 | 0x0020 | 3 | 0x0100 |
| 4 | 0x03F8 | 4 | 0x0000 |
| 5 | 0x0A60 | 5 | 0x0000 |
| 6 | 0x0F00 | 6 | 0x0900 |
| 7 | 0x0000 | 7 | 0x0000 |
| 8 | 0x0000 | 8 | 0x2200 |
| 9 | 0x0177 | 9 | 0x0000 |
| 10 | 0x0000 | 10 | 0xEE00 |

COM PORT

Modbus RTU via RS-232 physical layer

mikroProg
USB 2.0 programmer - ICD

EasyPIC v7
development board

RS-232

MAX3232

MCU
PIC18F45K22

Ready for PIC
board

MCU
PIC18F45K22

128K x 8
SRAM
UM621024C

external memory
block

10001 10002 10003 10004 10005 10006 10007 10008 10009
00001 00002 00003 00004 00005 00006 00007 00008

- LEDs on the board signalize coil states
 - PCB push buttons "pull down" discrete input voltage levels
- Look at the example .c file!