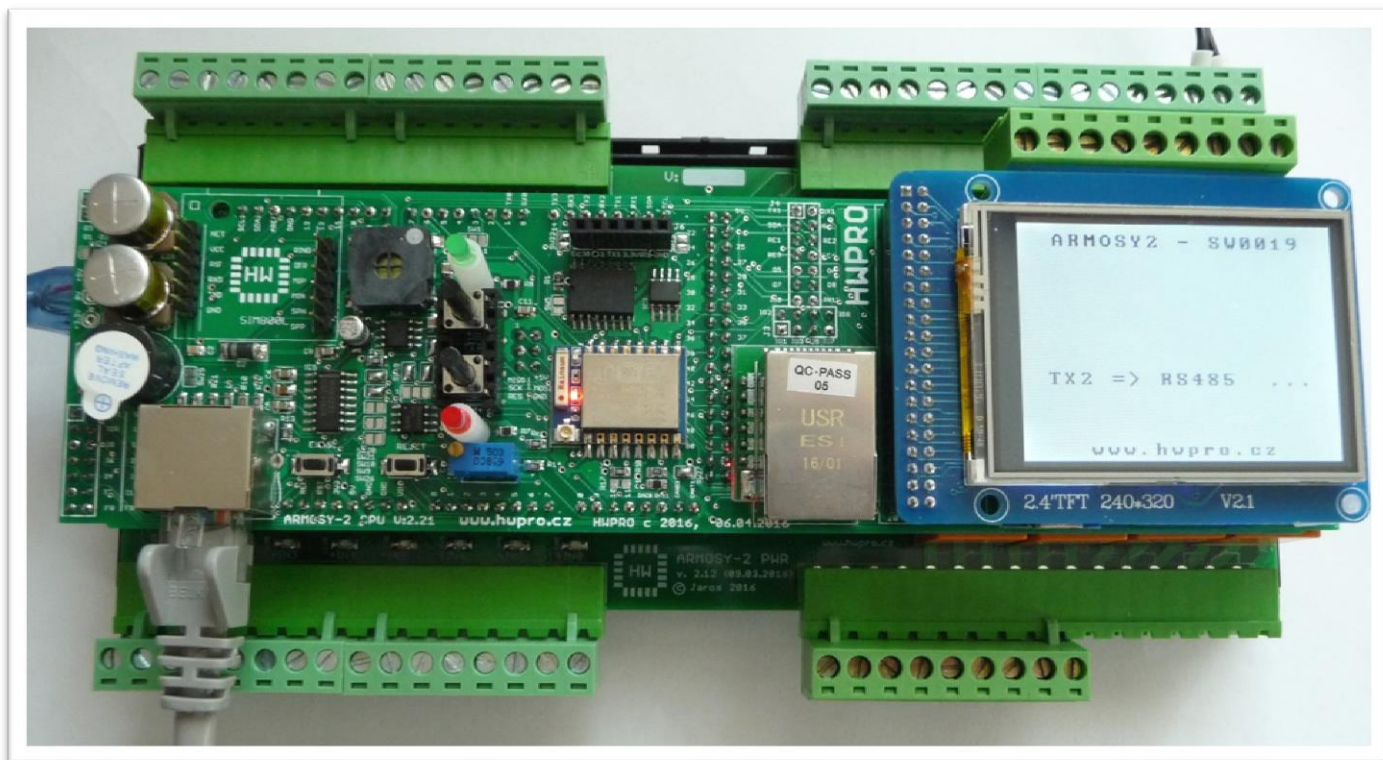


Example – SW0019














Transmit data RS-485 => UART2, 115200bps 8N1



Universal Control System

ARMOSY-2

ARduino MOdule SYstem

 ARM, 32 bit 84MHz, 512k FLASH	 Arduino DUE 3.3V Technology	 EEPROM, I2C 256 kB	 RTC, DS3231, I2C temper.compensation Battery CR2032	 SD CARD, SPI Slot In TFT LCD	 2.4" COLOR LCD 240x320 px	 NF amplifier, DAC Audio
2x RS-232 115 kbps	Two Wire RS-485 115 kbps	Mini USB, FTB232 OPTION USB 1 Mbps	ESP8266, UART OPTION WiFi 2 Mbps	W5500, SPI OPTION Ethernet 10/100 Mb, 2 LED	GSM, UART OPTION GSM SIM800L	Two I2C BUS BUS 1-wire DALLAS 1Wire BUS
8x INPUT Optocoupler 6 MODE	8x OUTPUT Optocoupler 3 MODE, PWM	8x IN / OUT Universal I/O Direct CPU	2x OPTION 0 – 30A Current measurement	4x AD OPTION 0 – 10V 18b AD Converter	4x DA OPTION 0 – 10V 12b DA Converter	4x OPTION 10A, 250V, AC
POWER INPUT 8V ~ 72V, 3W  AC, DC, USB	Measurement System Voltage  3.3V / 5V	OTHERS 2x Buttons 2 x LED Buzzer	User Design PCB  Size 10x4 cm	DIN OPTION  12 modul	Programming  Free Software	CZ, EN  User manual Examples

```

/* ||||| ARMOSY-2 Example |||||
Transmit data RS-485 => UART2, 115200bps 8N1
Hardware: ARMOSY-2
Version HW: 2.21
Create: 24.04.2016

||||| TERMINAL CONNECTION |||||
63 - IN POWER, VCC min 8V/1A!
64 - IN POWER, -"-
74 - RS-485, 1(TX2),2(RX2), Terminal 115200 8N1

||||| JUMPER |||||
SW7 - ON (Enable TX RS485)
SW19 - ON (Enable RX RS485)Disconnect SIM800L
*/

// | LIBRARY
#include <UTFT.h> //Driver UTFT

// | DECLARATIONS
UTFT myGLCD(ITDB24,38,39,40,41); // RS, WR, CS, REST
extern uint8_t BigFont[]; // UTFT Fonds
String command; //String to hold commands
#define RS485 Serial2 // USB
byte RS485_DERE = 41; // RX/TX RS485

// ||||| SETUP |||||

void setup() {

// | UTFT
myGLCD.InitLCD(); // Initialization LCD
myGLCD.clrScr(); // Clear Screen
myGLCD.fillScr(VGA_WHITE); // VGA Background Transparency
myGLCD.setColor(0, 0, 0); // Black Fonds
myGLCD.setBackColor(255, 255, 255); // White Background
myGLCD.setFont(BigFont); // Select Font

// | HEADER
myGLCD.print("ARMOSY2 - SW0019", CENTER, 10);
myGLCD.print("www.hwpro.cz", CENTER, 220);

// | SERIAL UART
Serial2.begin(115200); //Speed

// | RS485 SWITCH RX/TX
pinMode(RS485_DERE, OUTPUT);
digitalWrite(RS485_DERE, HIGH); // L RX Enable, H TX Enable
}

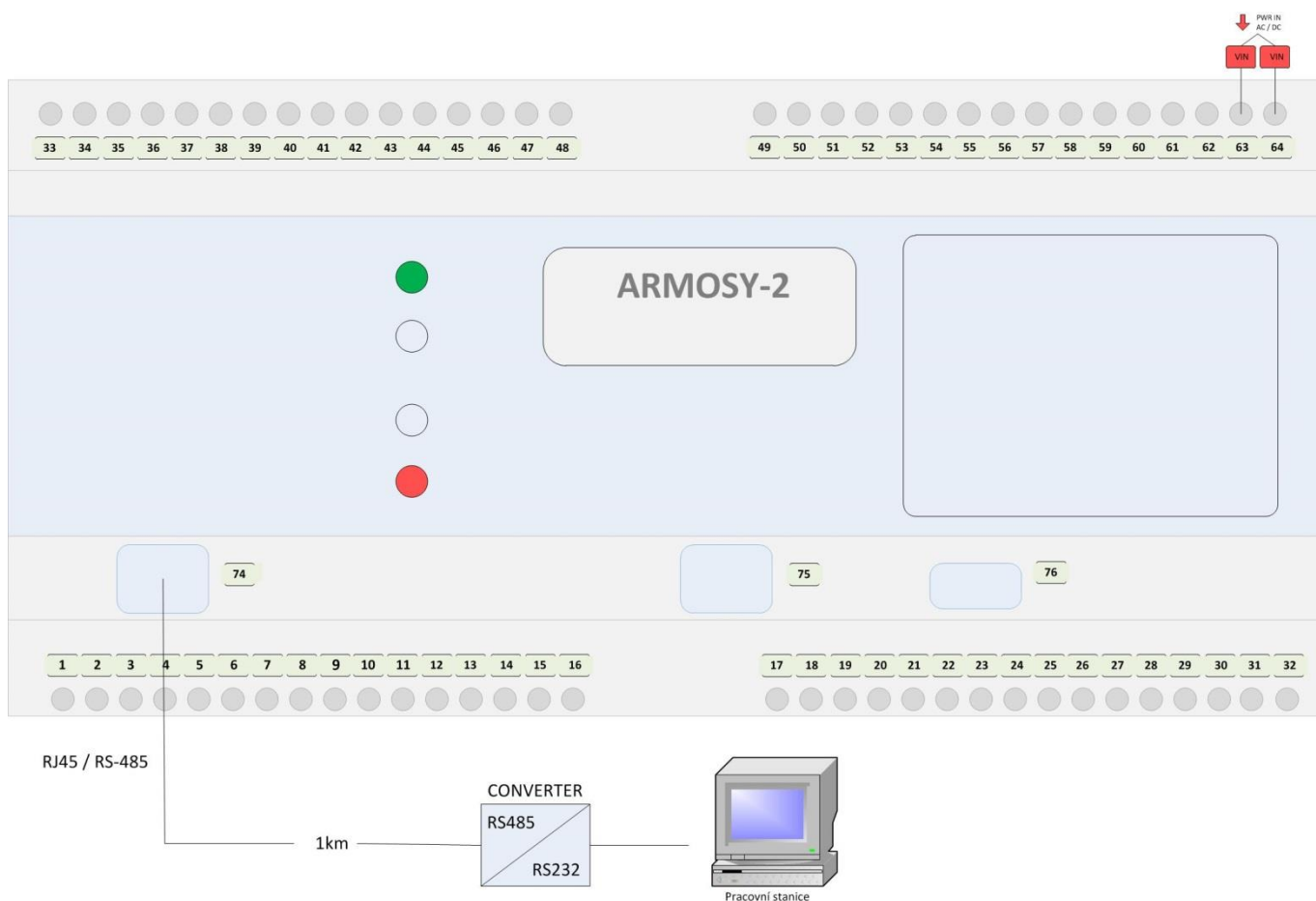
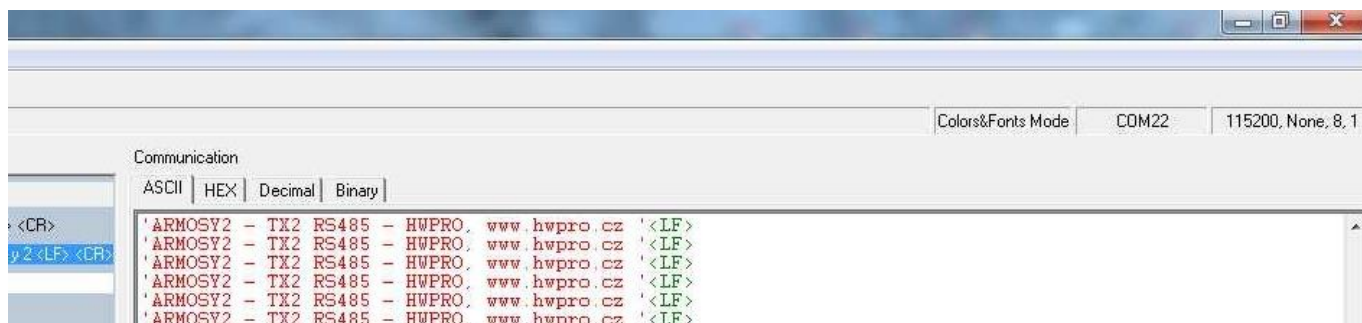
```

**HWPRO**

Vývoj a výroba elektronických zařízení
e-mail: info@hwpro.cz
web: www.hwpro.cz

```
// ||||| MAIN |||||

void loop() {
  myGLCD.print("TX2 => RS485   ...", CENTER, 150);
  RS485.print("ARMOSY2 - TX2 RS485 - HWPRO, www.hwpro.cz '\n'");
}
```


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