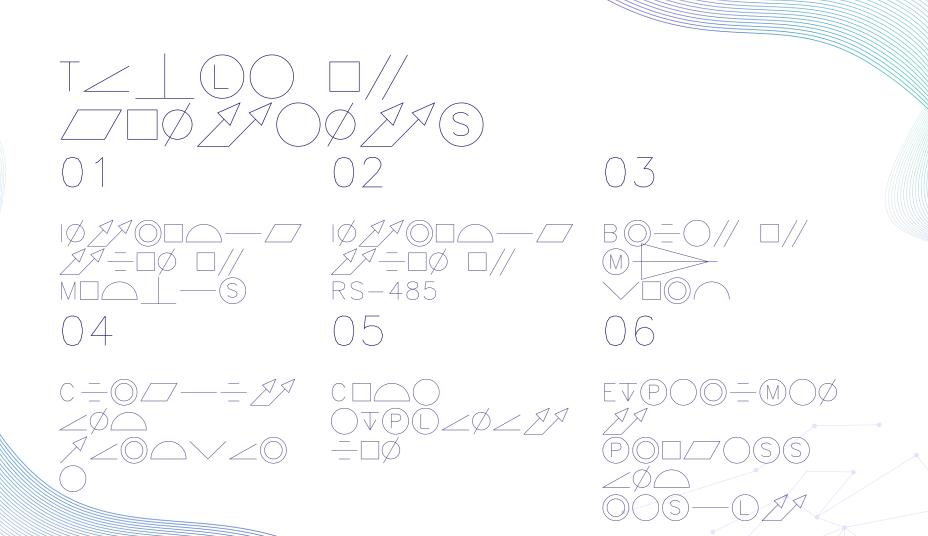


 $\mathsf{B} \stackrel{\cdot}{\longmapsto} : \ \mathsf{Q} \stackrel{-}{=} \bigcirc \mathsf{\square} \emptyset / \! \lozenge /$



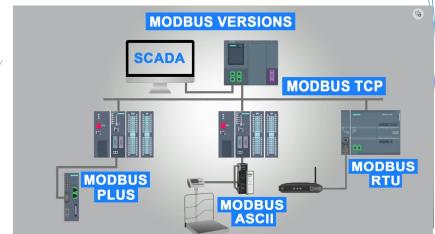


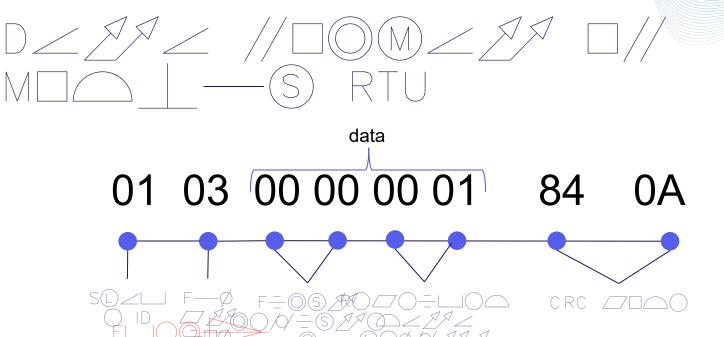






- $\begin{array}{c} M \angle S \angle A \bigcirc \bigcirc S \square \angle \square \bigcirc \\ \bullet A \bigcirc \Box A = \angle A \bigcirc \Box \angle A \bigcirc \bigcirc \end{array} :$
- TAO M2S2400 S24224=0\$ \$000\$ 00t-0824\$ 200
- + 00//O=L(S)
- † UP 270 247 SOZLOS



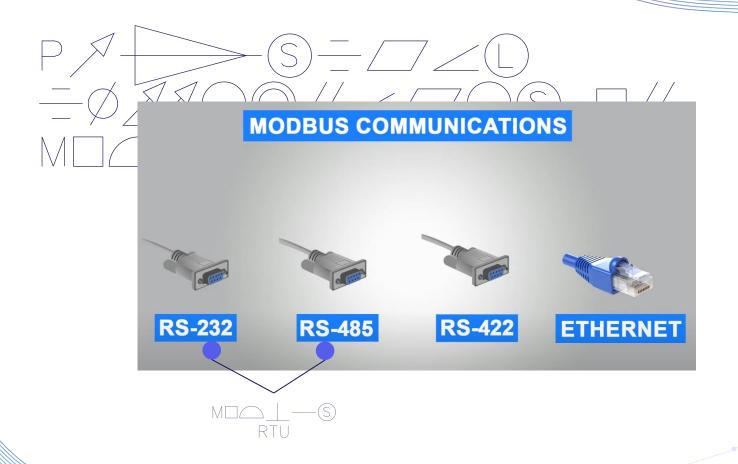


Slave ID: 0 is master and slaves usually use 1-127, 128-247 for unusual condition

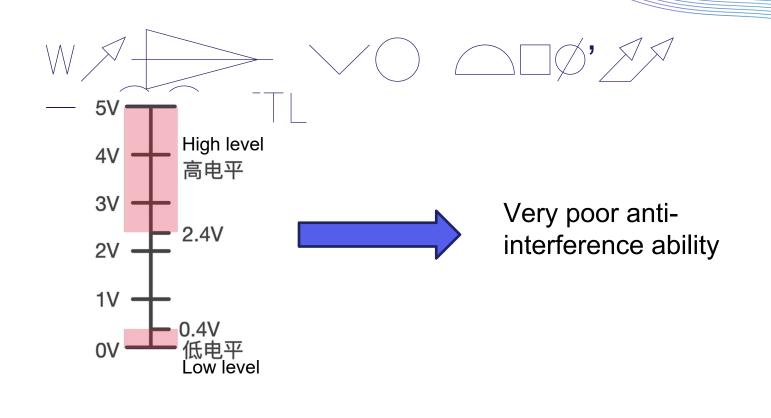
Function code: There are many different functions in RTU and 03 is for reading holding registers

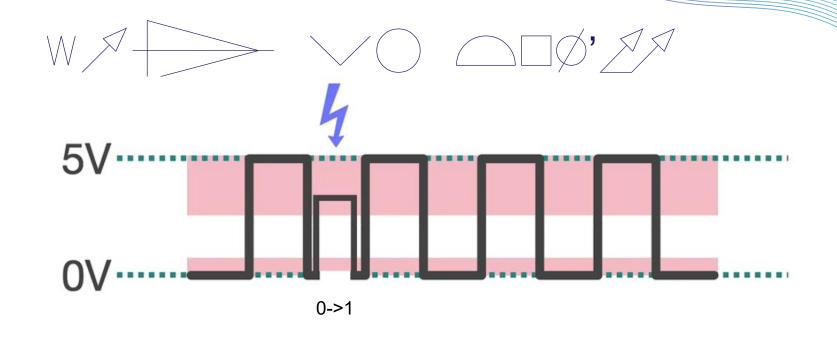
Data: Recognize the start address and end address of register, for this example means read 40001 address of holding register only.

CRC code: To check if the received data is same with the sent data. CRC code is based on some function to compute and RTU has its own function



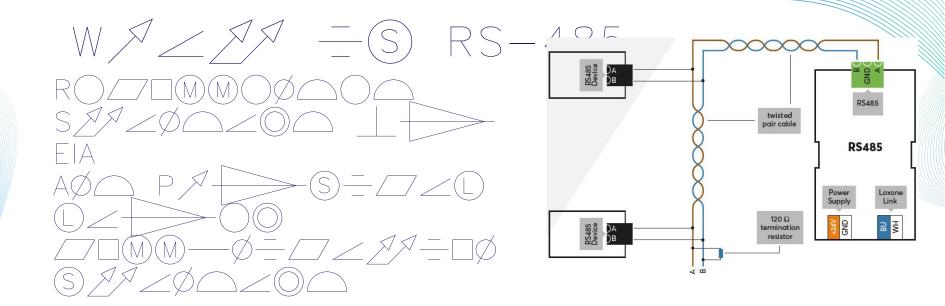






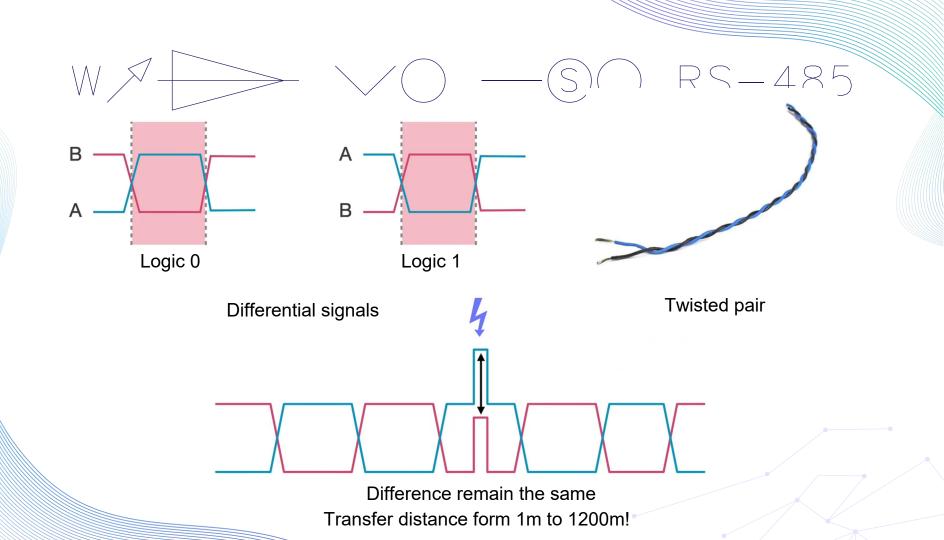
Very poor anti-interference ability

Transfer distance: less than 1 meter

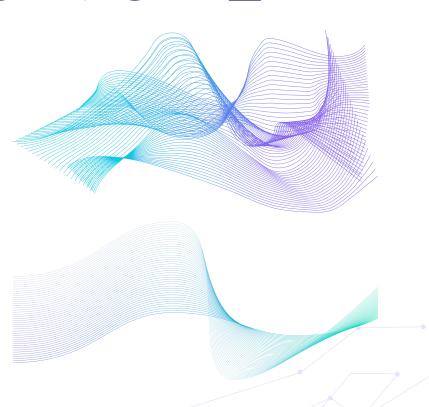


Features

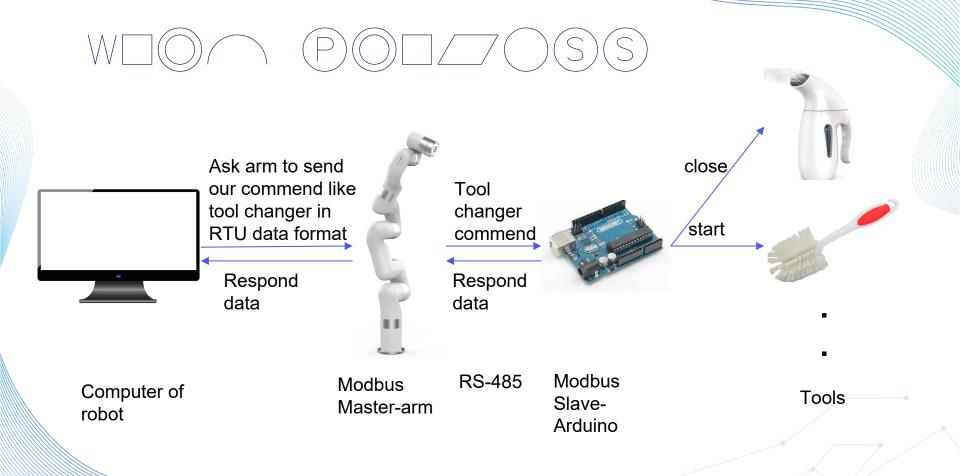




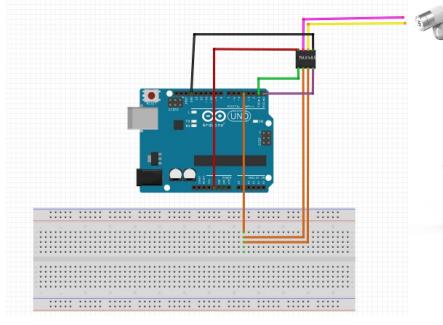
FDO D-O POD+OZZ

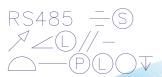


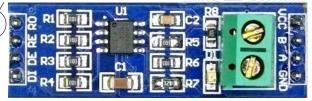








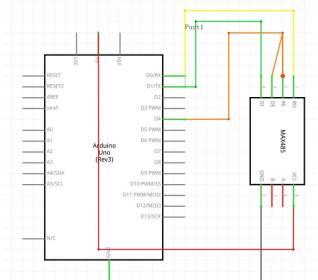




MAX485: 485-TTL

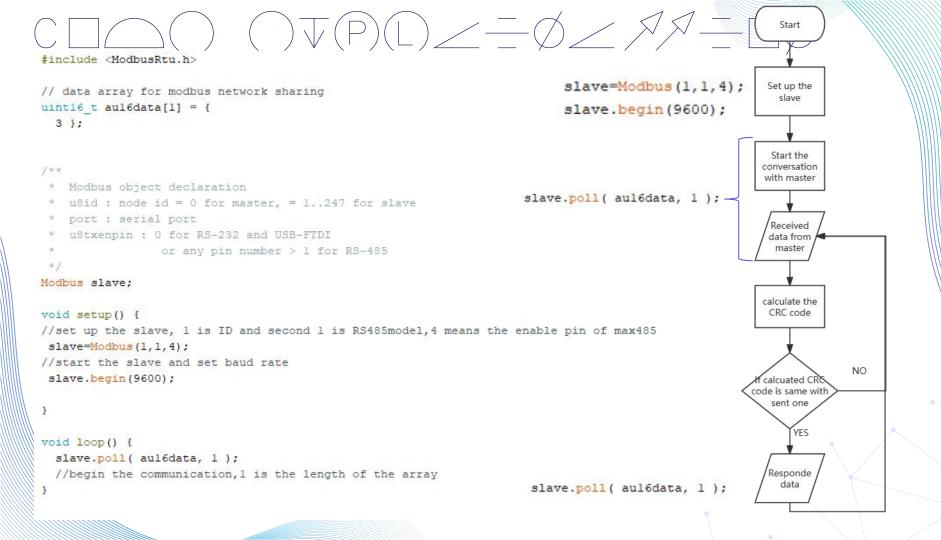
Pin Name	Pin Description
VCC	5V
A	Non-inverting Receiver Input Non-Inverting Driver Output
В	Inverting Receiver Input Inverting Driver Output
GND	GND (0V)
RO	Receiver Out (TX pin)
RE	Receiver Output (LOW-Enable)
DE	Driver Output (HIGH-Enable)
DI	Driver Input (RX pin)







Pin Name	Pin connected
VCC	5V
A	A wire of end-effector
В	B wire of end-effector
GND	GND of Arduino
RO	RX pin of Arduino
RE	Pin 4
DE	Pin 4
DI	TX pin of Arduino





roslaunch xarm_bringup xarm7_server.launch robot_ip:=192.168.1.128 report_type:=normal

//Start all xarm server, change the control box ip in real condition

rosservice call /xarm/config_tool_modbus 9600 20

//Set proper baud rate and timeout(ms) parameters

rosservice call /xarm/set_tool_modbus [0x01,0x03,0x00,0x00,0x00,0x01] 5

//Set data array to be sent to the modbus tool device, and second is the number of characters to be received as a response from the device. No need to set CRC code

ROS-UZX

