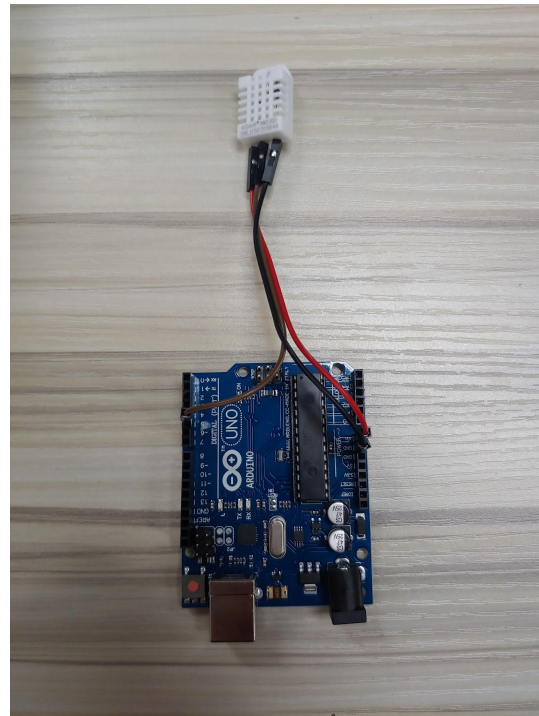
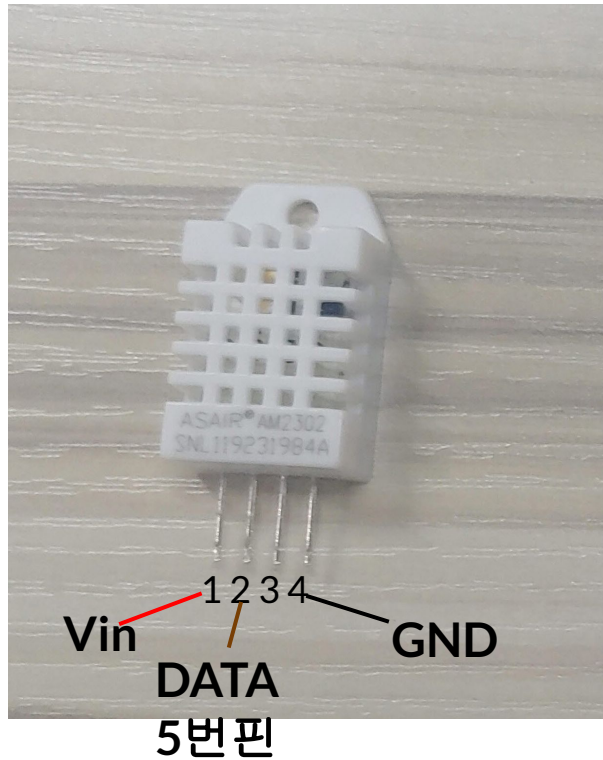




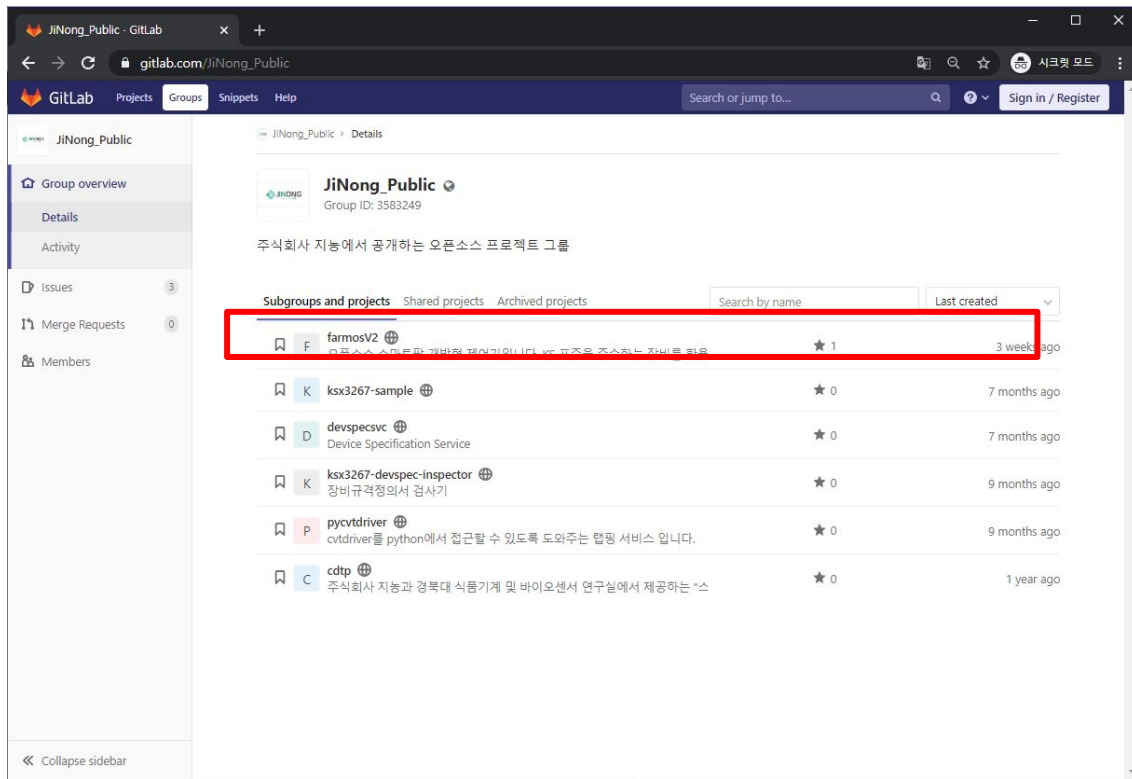
KS 표준 기반 장비 제작

온습도 센서

센서노드 조립 방법



ksx3267 sample 다운로드

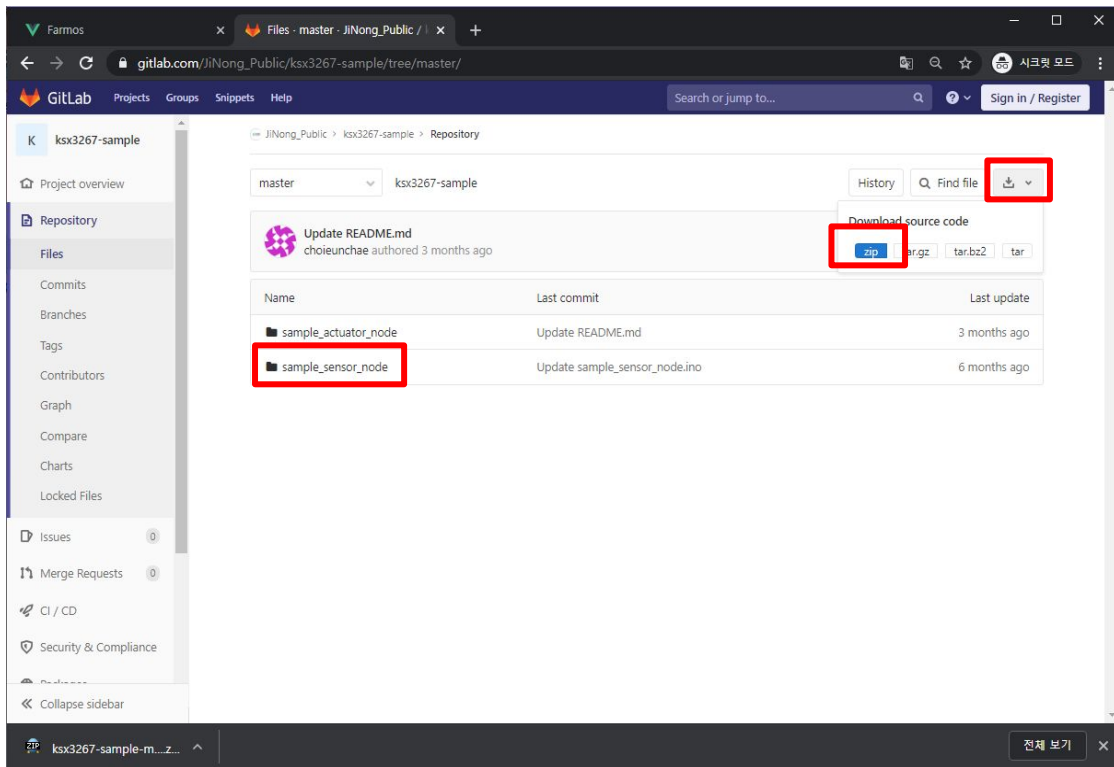


The screenshot shows the GitLab web interface for the 'JiNong_Public' group. The left sidebar contains navigation links: Group overview, Details, Activity, Issues (3), Merge Requests (0), and Members. The main content area shows the 'Subgroups and projects' list for the group. A red box highlights the first project, 'farmosV2', which has 1 star and was created 3 weeks ago. Below it are other projects: 'ksx3267-sample' (0 stars, 7 months ago), 'devspecsvc' (0 stars, 7 months ago), 'ksx3267-devspec-inspector' (0 stars, 9 months ago), 'pycvtdriver' (0 stars, 9 months ago), and 'cdtp' (0 stars, 1 year ago).

Project Name	Stars	Last Created
farmosV2	1	3 weeks ago
ksx3267-sample	0	7 months ago
devspecsvc	0	7 months ago
ksx3267-devspec-inspector	0	9 months ago
pycvtdriver	0	9 months ago
cdtp	0	1 year ago

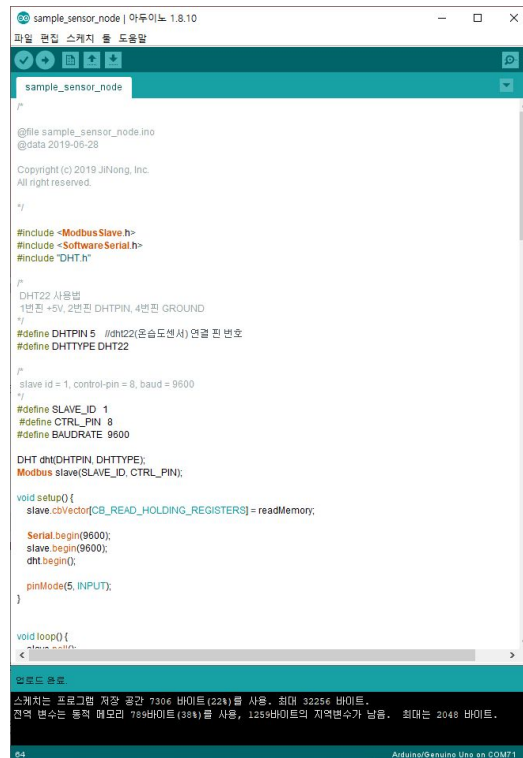
https://gitlab.com/JiNong_Public

ksx3267 sample 다운로드



The screenshot shows the GitLab repository page for `ksx3267-sample`. The repository is located at `gitlab.com/JiNong_Public/ksx3267-sample/tree/master/`. The left sidebar shows the repository structure with files and folders. The `sample_sensor_node` folder is highlighted with a red box. The `Download source code` section shows the `zip` button highlighted with a red box.

Name	Last commit	Last update
<code>sample_actuator_node</code>	Update README.md	3 months ago
<code>sample_sensor_node</code>	Update sample_sensor_node.ino	6 months ago



```
sample_sensor_node | 아두이노 1.8.10
파일 편집 스케치 툴 도움말

sample_sensor_node

/*
 * @file sample_sensor_node.ino
 * @data 2019-06-28
 *
 * Copyright (c) 2019 JiNong, Inc.
 * All right reserved.
 */

/*
 * DHT22 사용법
 * 1번핀 +5V, 2번핀 DHTPIN, 4번핀 GROUND
 */
#include <Modbus Slave.h>
#include <SoftwareSerial.h>
#include "DHT.h"

#define DHTPIN 5 //dht22(온습도센서) 연결 핀 번호
#define DHTTYPE DHT22

/*
 * slave id = 1, control-pin = 8, baud = 9600
 */
#define SLAVE_ID 1
#define CTRL_PIN 8
#define BAUDRATE 9600

DHT dht(DHTPIN, DHTTYPE);
Modbus slave(SLAVE_ID, CTRL_PIN);

void setup() {
  slave.cbVector[CB_READ_HOLDING_REGISTERS] = readMemory;

  Serial.begin(9600);
  slave.begin(9600);
  dht.begin();

  pinMode(5, INPUT);
}

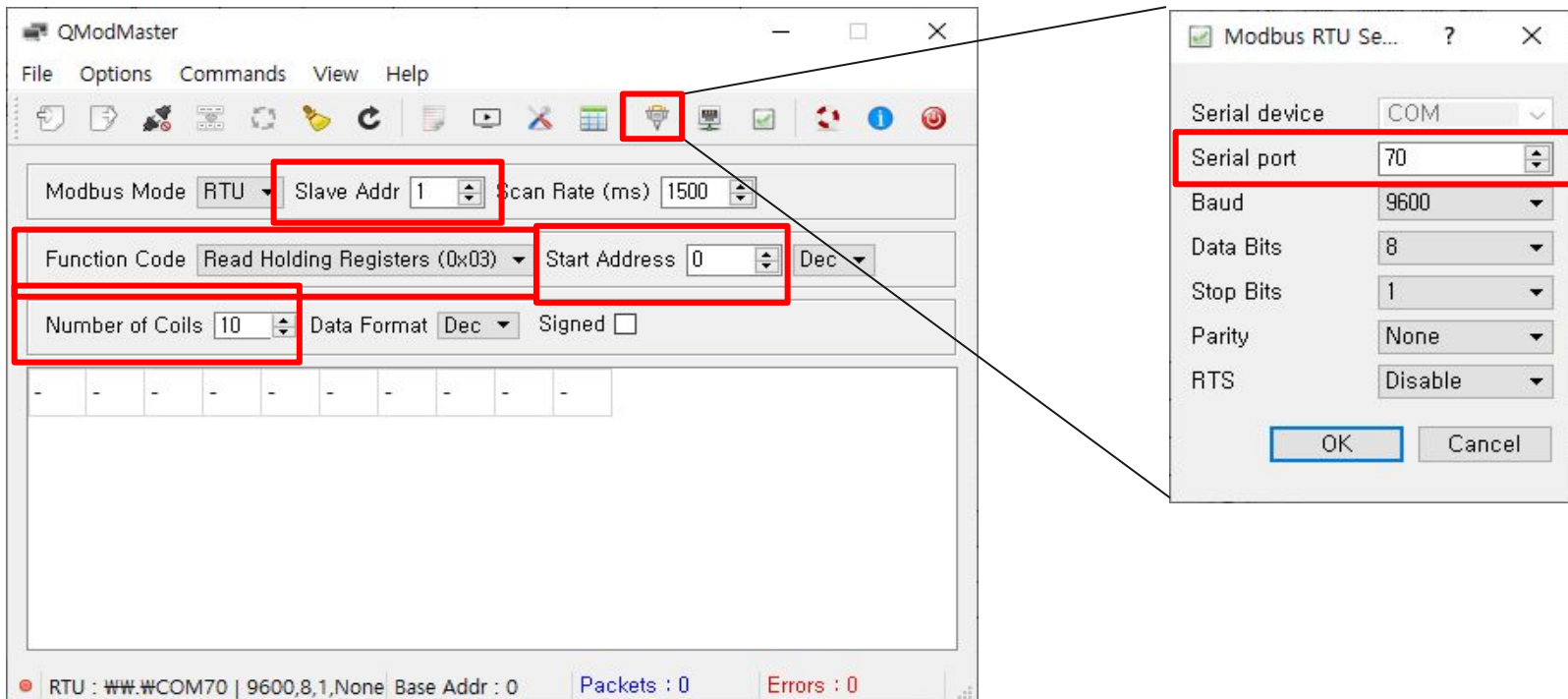
void loop() {
  // Read data
  int temp, hum;

  /*
   * 스케치는 프로그램 저장 공간 7306 바이트 (22%) 를 사용, 최대 32256 바이트.
   * 전역 변수는 동적 메모리 789바이트 (38%) 를 사용, 1259바이트의 지역변수가 남음. 최대는 2048 바이트.
   */
}
```

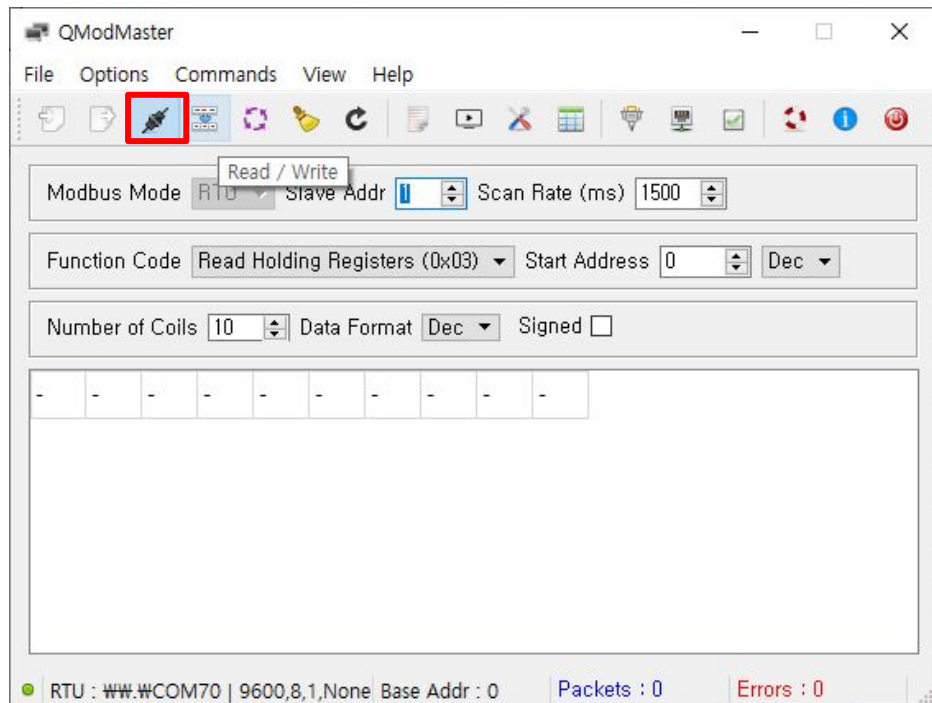
샘플 센서 노드

장비정보	2	3	4	5	6	7		
정보	회사코드	제품타입 (노드/양액기)	제품코드	프로토콜버전	연결장비수	구역수		
Type	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit		
Value	1	1	10001	101	2	0		
연결제품코드	101	102						
정보	장치코드#1	장치코드#2						
Type	Uint 16bit	Uint 16bit						
Value	101	202						
노드상태	40201	40202	...					
정보	opid	노드상태						
Type	Uint 16bit	Uint 16bit						
센서정보	40211	40212	40213	...	40221	40222	40223	...
정보	온도센서값		온도센서상태		습도센서값		습도센서상태	
Type	Float 32bit		Uint 16bit		Float 32bit		Uint 16bit	
노드제어명령	45001	45002	...					
정보	명령코드	opid						
Type	Uint16bit	Uint16bit						

QModMaster 설정 방법



QModMaster 사용법



장비 정보 확인

QModMaster

File Options Commands View Help

Modbus Mode: RTU Slave Addr: 1 Scan Rate (ms): 1500

Function Code: Read Holding Registers (0x03) Start Address: 0 Dec

Number of Coils: 10 Data Format: Dec Signed: ☐

0 0 1 1 10001 101 2 0 0 0

0 1 2 3 ...

장비정보	2	3	4	5	6	7
정보	회사코드	제품타입 (노드/양역기)	제품코드	프로토콜버전	연결장비수	구역수
Type	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit	Uint 16bit
Value	1	1	10001	101	2	0

RTU : ##.##COM70 | 9600,8,1,None Base Addr : 0 Packets : 7 Errors : 0

연결 제품 코드 확인

QModMaster

File Options Commands View Help

Modbus Mode RTU Slave Addr 1 Scan Rate (ms) 1500

Function Code Read Holding Registers (0x03) Start Address 100 Dec

Number of Coils 10 Data Format Dec Signed ☐

0	101	202	0	0	0	0	0	0	0
100	101	102	103				

RTU : WWW.COM70 | 9600,8,1,None Base Addr : 0 Packets : 6 Errors : 0

연결제품코드	101	102
정보	장치코드#1	장치코드#2
Type	Uint 16bit	Uint 16bit
Value	101	202

센서 정보 확인

QModMaster

File Options Commands View Help

Modbus Mode RTU Slave Addr 1 Scan Rate (ms) 1500

Function Code Read Holding Registers (0x03) Start Address 40210 Dec

Number of Coils 20 Data Format Dec Signed ☐

40210 40211 40212 40213 ... : 온도 센서

0	52429	16852	0	0	0	0	0	0	0
0	52429	16828	0	0	0	0	0	0	0

40220 40221 40222 40213 ... : 습도 센서

RTU : W.W.COM70 | 9600,8,1,None Base Addr : 0 Packets : 3 Errors : 0

센서정보	40211	40212	40213	...
정보	온도센서값		온도센서상태	
Type	Float 32bit		Uint 16bit	

40221	40222	40223	...
습도센서값		습도센서상태	
Float 32bit		Uint 16bit	