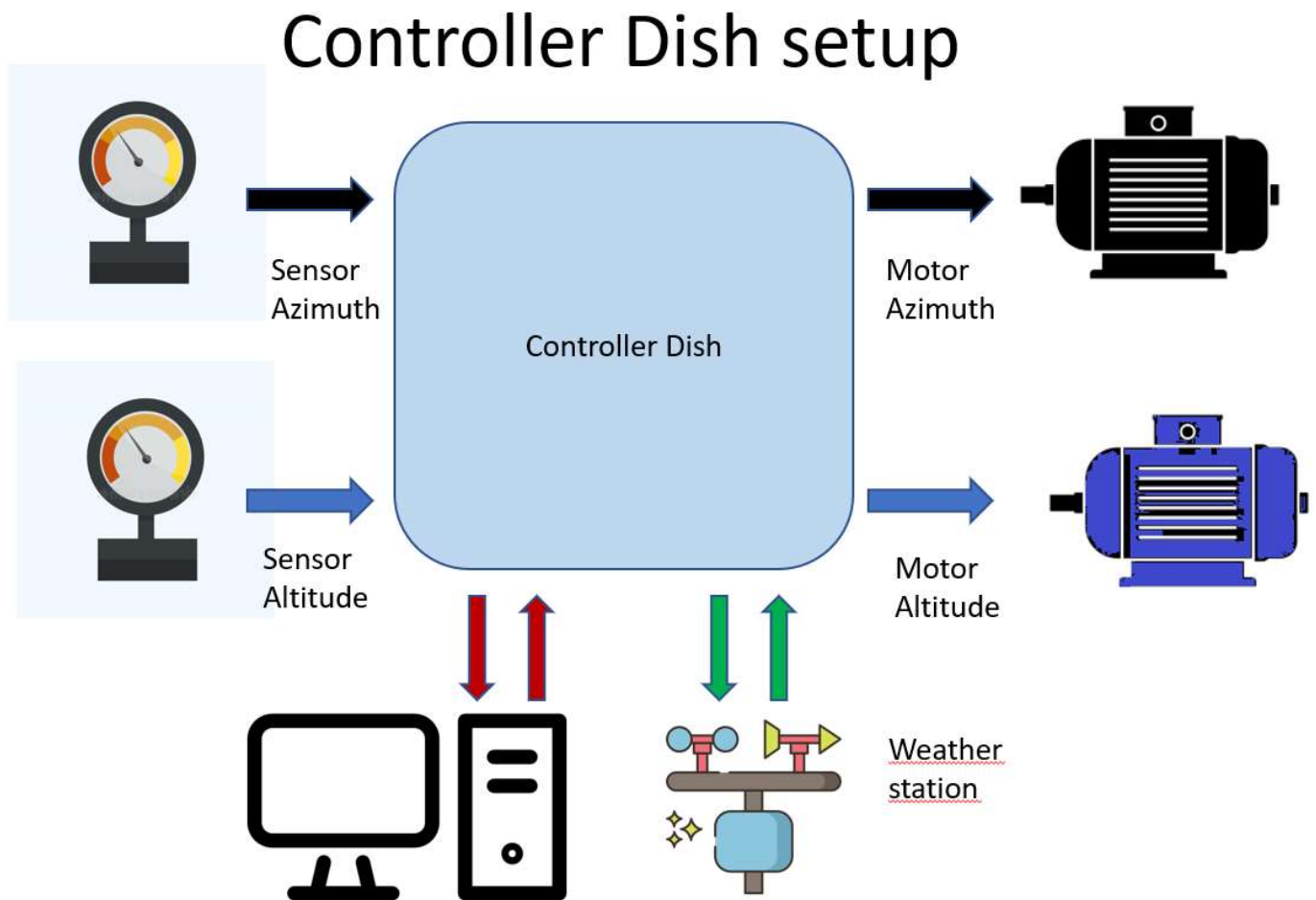


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INTRODUCCIÓN

El controlador dispone de un puerto MOD-BUS RS485 para dispositivos auxiliares, en este puerto conectamos la estación meteorológica WX.

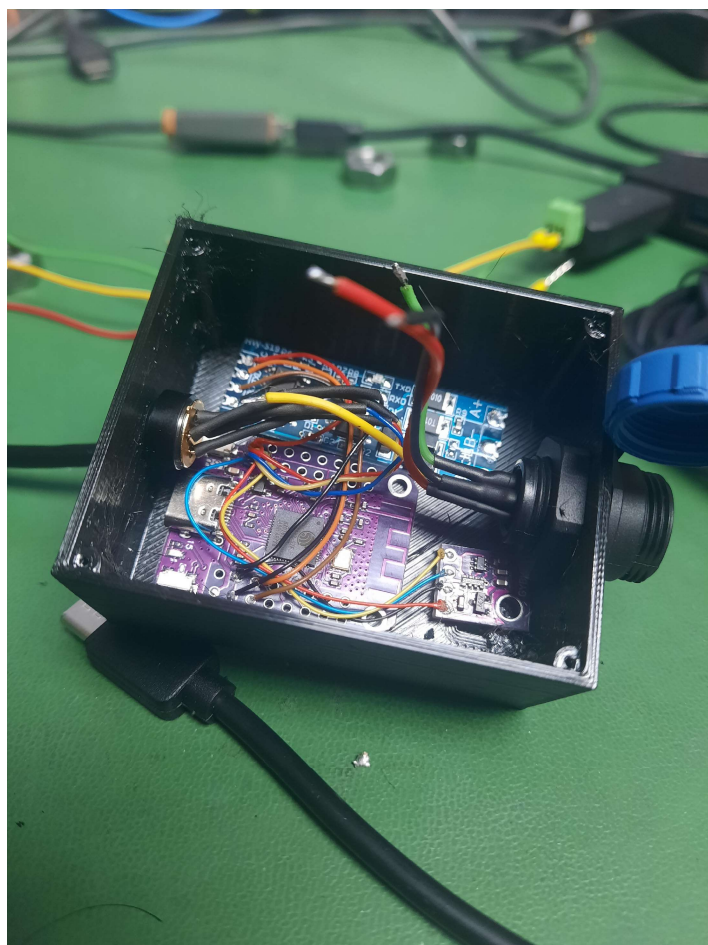
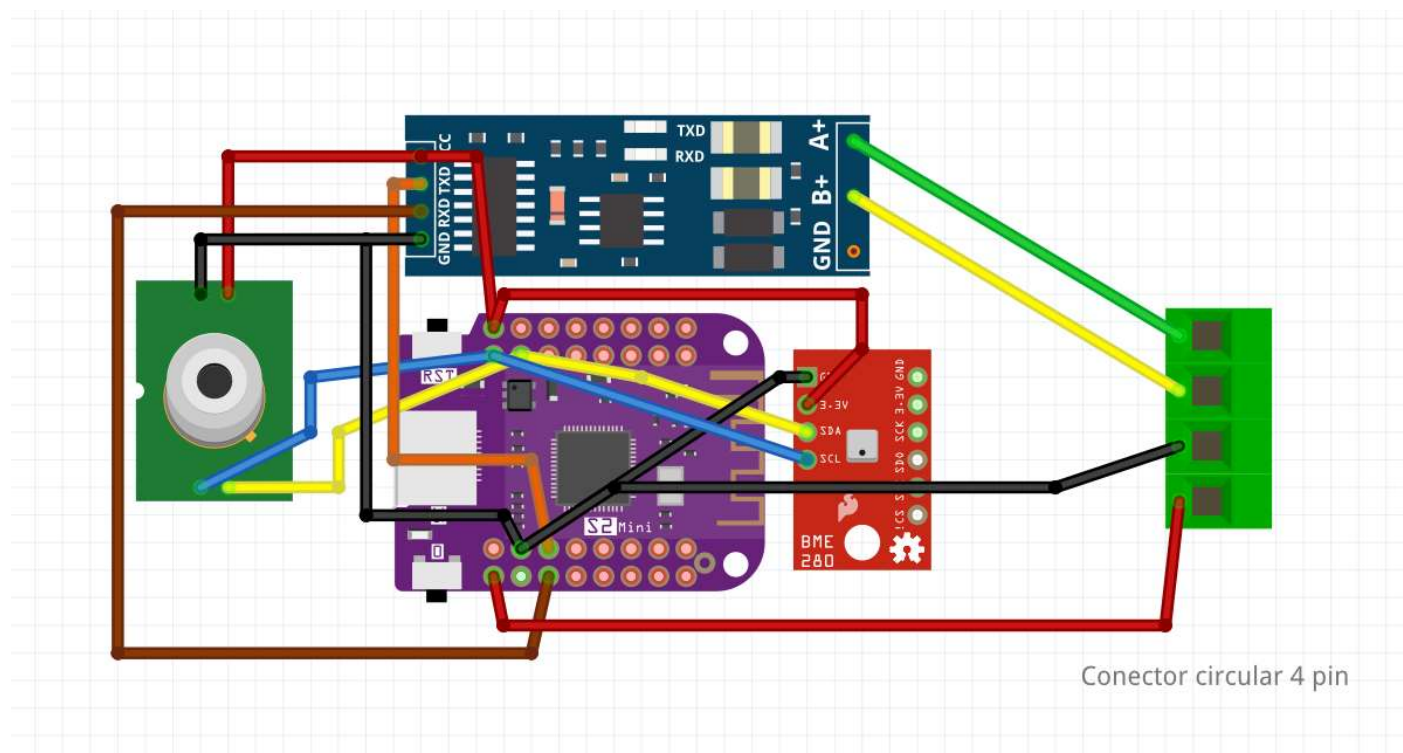


Esta estación meteorológica esta compuesta por:

- ESP32 -S2 mini
- Sonda BME280
- Sonda MLX90614 10° POV
- Interface TTL - RS485

HARDWARE

El montaje es por unión con cables entre los distintos módulos



COMUNICACIONES

La comunicación con el PC es a través de un puerto RS-485 a 115200 bauds.

La dirección del dispositivo es la número 3 y hay 5 registros con datos.

Registro	Contenido	Comentarios
0	Temperatura del cielo	Devuelve la temperatura * 10
1	Temperatura ambiente	Devuelve la temperatura * 10
2	Presión atmosférica	
3	Humedad relativa	
4	Temperatura BME280	Devuelve la temperatura * 10

Estos valores los usara DriverDish.App

The screenshot shows the DriverDish.App interface. At the top, a black bar displays the date and time: **16-04-2023 14:45:33**. Below this, there are several input fields and buttons for dish tracking. The 'Position dish' section shows '°Az' as **NC** and '°El' as **NC**. The 'Correction' section shows '0.000' for both '°Az' and '°El'. The 'Track error' section shows '0.000' for both '°Az' and '°El'. The 'Offset' section shows '0.000' for both '°Az' and '°El'. There are also buttons for 'Tracking', 'Corrections', and 'Sky/Amb T°' with a value of **Na** and '0.0'. Below these, there are tabs for 'Move dish', 'Setup', 'AstroServer', 'Radios', 'Heatmap', 'Motors', and 'WX'. The 'Weather station' section is active, showing the following data: Sky temperature: **22.8** °C, Ambient temperature: **25.7** °C, Atmospheric pressure: **978** mBar, Relative humidity: **27** %, and Sensor temperature: **24.2** °C. A 'Read sensor' button is located below the weather data. At the bottom, there are buttons for 'Range', 'Enc', '0/0', 'Show log', 'Debug', and 'MapDishErrors'.

ENLACES DE COMPRAS

ESP32 S2 MINI

https://www.amazon.es/Sxdluzi-V1-0-0-ESP32-S2FN4R2-ESP32-S2-MicroPython/dp/B0BPS4X6C9/ref=sr_1_1_sspa?mk_es_ES=%C3%85M%C3%85%C5%BD%C3%95%C3%91&crd=O03W9L2VSBFF&keywords=ESP32+S2+Mini&qid=1681664534&s=electronics&srefix=esp32+s2+mini+%2Celectronics%2C95&sr=1-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1
<https://es.aliexpress.com/item/1005003145192016.html>

ADAPTADOR TTL A RS485

HTTPS://WWW.AMAZON.ES/DP/B09Z2GTMJ8?PSC=1&REF=PPX_YO2OV_DT_B_PRODUCT_DETAILS
https://es.aliexpress.com/item/4001032241843.html?pdp_npi=2%40dis%21EUR%21%E2%82%AC%200.64%21%E2%82%AC%200.55%21%21%21%21%21%21%40211b446216816647415508375efcc0%2110000013612022862%21btf&t=pvid%3A1bd3ddbe-5843-4520-8937-7037dd0f996e&afTraceInfo=4001032241843_pc_pcBridgePPC_xxxxxx_1681664741&spm=a2g0o.ppclist.product.mainProduct&gatewayAdapt=glo2esp

BME280

https://www.amazon.es/s?k=bme280+3%2C3v&ref=nb_sb_ss_fb_1_4
https://es.aliexpress.com/item/1005002950104941.html?pdp_npi=2%40dis%21EUR%21%E2%82%AC%200.80%21%E2%82%AC%200.76%21%21%21%21%21%21%40211b5e1d16816651886764122e0b15%2112000022925834914%21btf&t=pvid%3Ad0062f42-466e-4436-bf42-ae8905e6ea85&afTraceInfo=1005002950104941_pc_pcBridgePPC_xxxxxx_1681665189&spm=a2g0o.ppclist.product.mainProduct&gatewayAdapt=glo2esp

MLX90614

<https://www.ebay.es/itm/173858657366?hash=item287ac89456:g:rzwAAOSw6n5XvLW9&amdata=enc%3AAQAIAAAAwICMTxSBsxy8PAX6rDxlUr%2FXbDutRZKorxaV5EpyON0BKKDuVTBHP8vM5Xnlu6rfCyp59uEsYmOrB2xD7d1Uu5aPHavjw3u7seGHZUjBaJTB9EI08rAlBsckiTEllIcj9ozrf7C2uI4NxLpVNvFt3GdD2lNp11iZbqDto6JaQfwse2meCR5GUvWaQpQmLk40Q6Lcy5%2FIAF%2B%2BS2%2BuK3DBceEe3Li3G2DRARkmla4JntOHyOKkNLz%2BFT8ta7i0FLpdGA%3D%3D%7Ctkp%3ABk9SR-rQhrHxYQ>