STLT-220

SINGLE WIRE COMMUNICATION

WINDOWS PROGRAMMING

DISHWASHER APPLICATION NOTE

Renau's STLT-220 measures temperature, liquid level, and TDS all in one compact sensor. In this example, we will explore a basic configuration for a dishwasher utilizing the STLT-220.

This system utilizes a UCM-2224 2.4" flush mount touchscreen to provide status information and processing power, an HMC-45 for power switching, and the STLT-220 to read temperature, liquid level, and the TDS of the water.
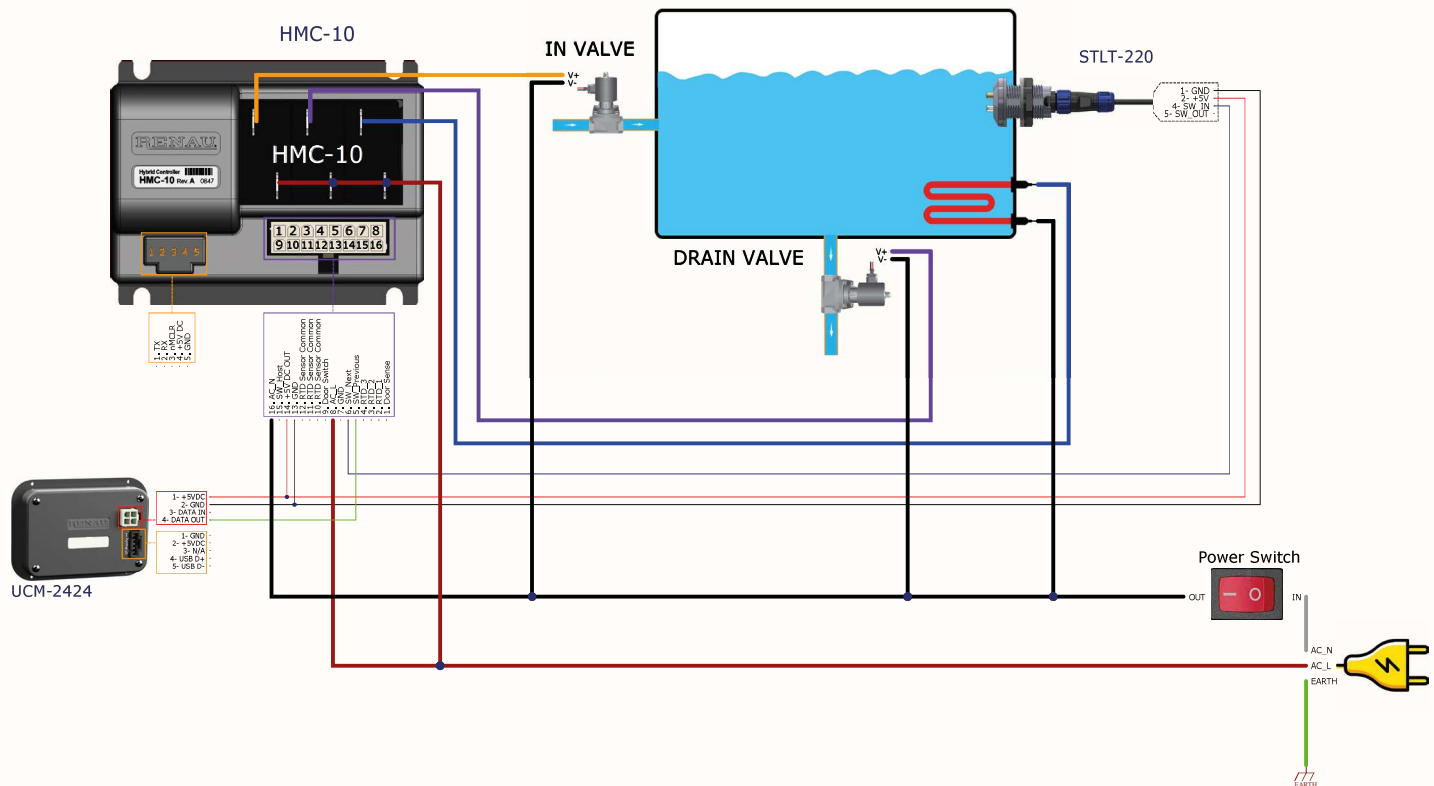
The first component of this system is the UCM-2224. The compact 2.4" controls various processes dependent on measurements from the STLT-220, and displays the various wash modes available, along with the current status of the unit. Alerts are user adjustable to trigger if a particular threshold is reached. These may include conditions such as "Low Water Level" or "Unsafe TDS Level Has Been Reached." These alerts also provide the added benefit of preventative maintenance. For example, if you begin regularly receiving alerts for "Low Temperature" it might be a sign that the heating element is beginning to fail. Receiving this information

prior to the failure not only saves on high repair costs, but also provides you with valuable time to correct the issue before the unit becomes inoperable. Additionally, the UCM-2224.

Next we have the HMC-45 which provides power to the system, switching the heating element, the fill valve, and the drain valve.

Lastly and most importantly we have the STLT-220 measuring the temperature, level, and TDS of the water and sending that information to the UCM-2224. These 3 parameters are important to operators but they also might not seem very useful unless you can actually do something with the information. With Renau's STLT-220 you can rest easy knowing that your washer will provide consistent functionality and safety for years to come.

At the end of the day, the STLT-220 is the perfect single sensor solution for monitoring and controlling various parameters in a dishwasher.

We do more than design. We invent.