

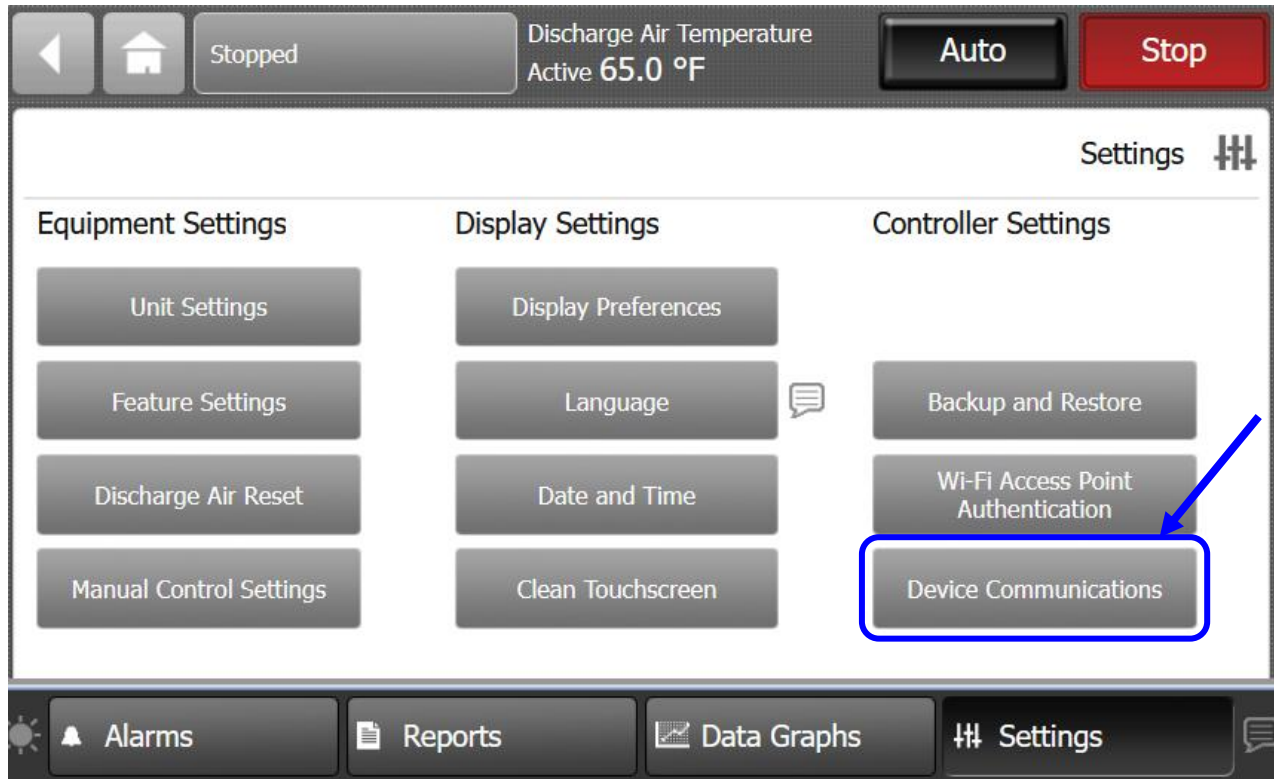
# Modbus Device Addressing

Trane Technologies June 21, 2024



# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

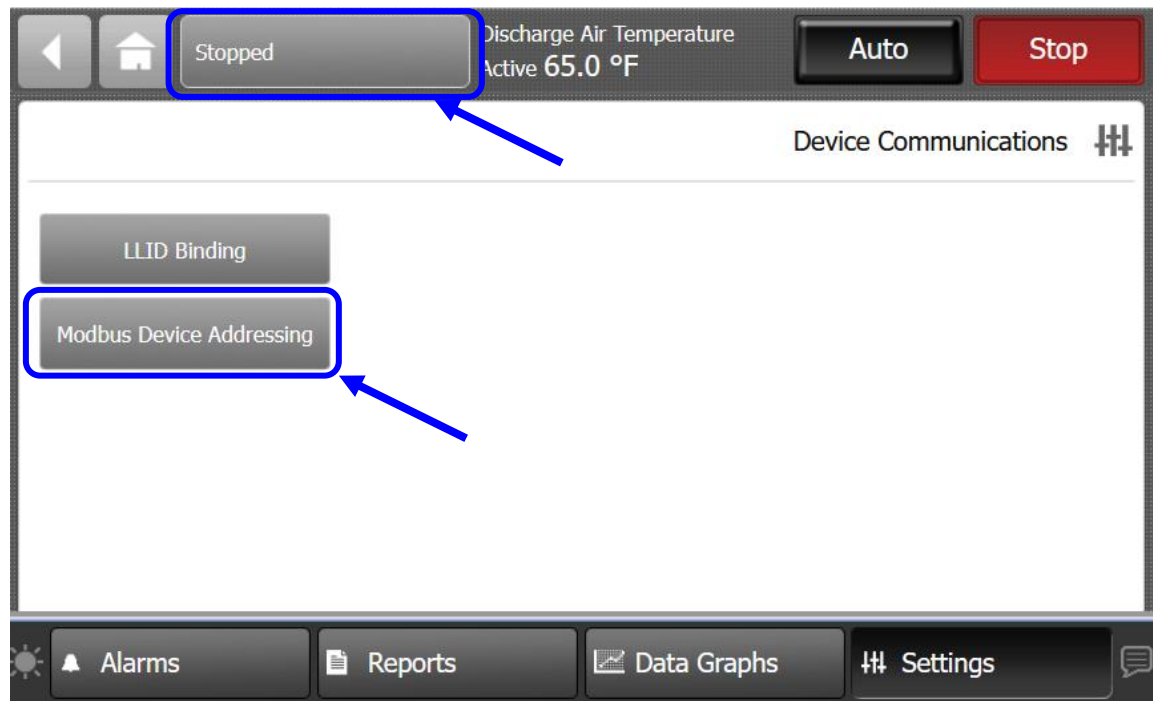
## Modbus Device Addressing



- Device Communications button contains tools used to configure devices connected to Symbio 800.
- Location was LLID Binding button

# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

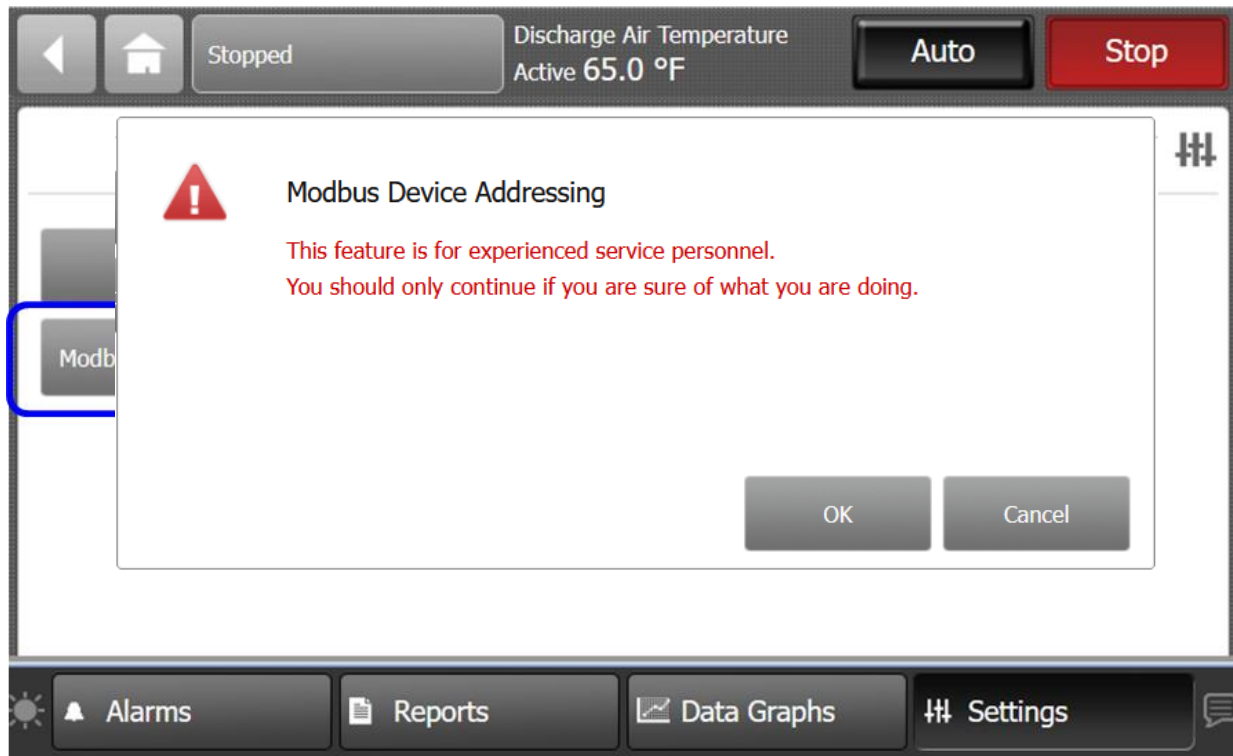
## Modbus Device Addressing



- New LLID Binding location
  - no additional changes made to LLID Binding
- Modbus Device Addressing
  - Unit DOES need to be in Stop to Address Devices
  - ONLY the Address can be set using this feature
  - Baud Rate, Parity, Stop Bit, Responses, etc. MUST all be set correctly from the vendor or by using vendor tools

# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

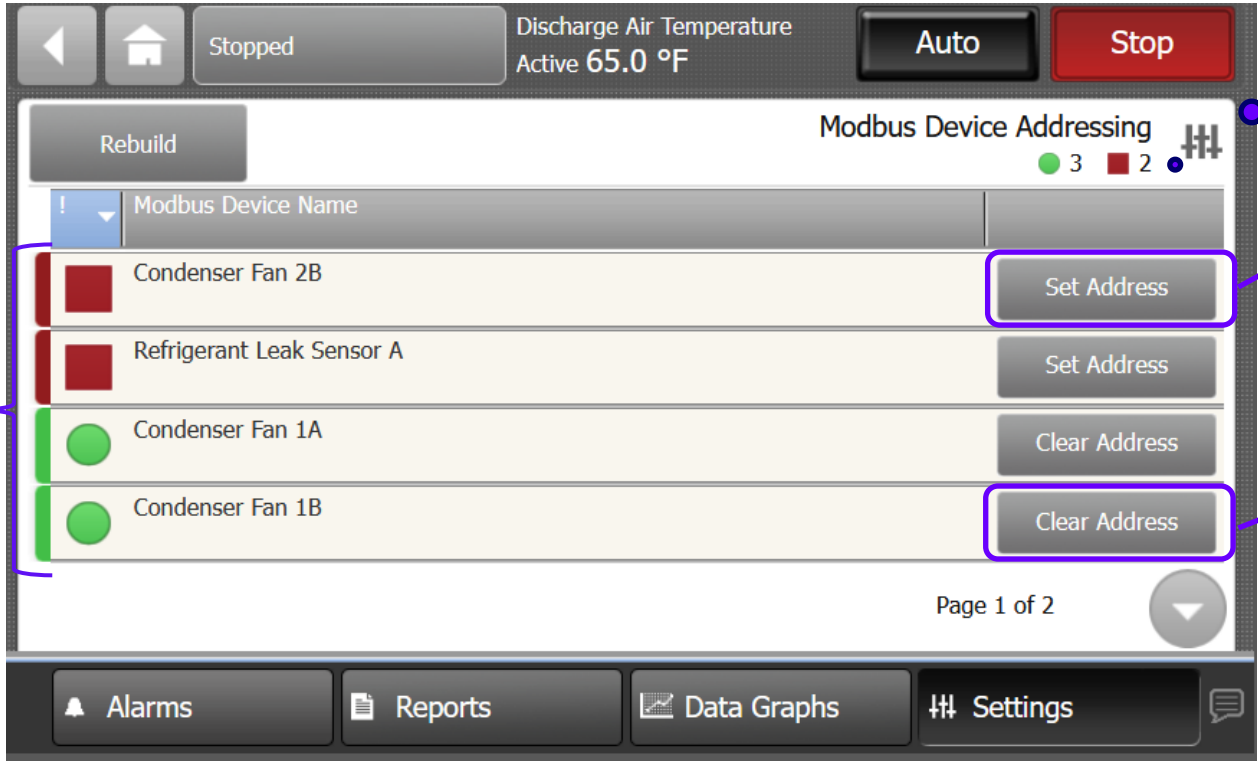
## Modbus Device Addressing Warning



- Modbus Device Addressing
  - Warning for Experience Service Personnel.

# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

## Modbus Device Addressing



Depicts the state of the Modbus Device:  
Green = Addressed  
Red = Needs Addressed

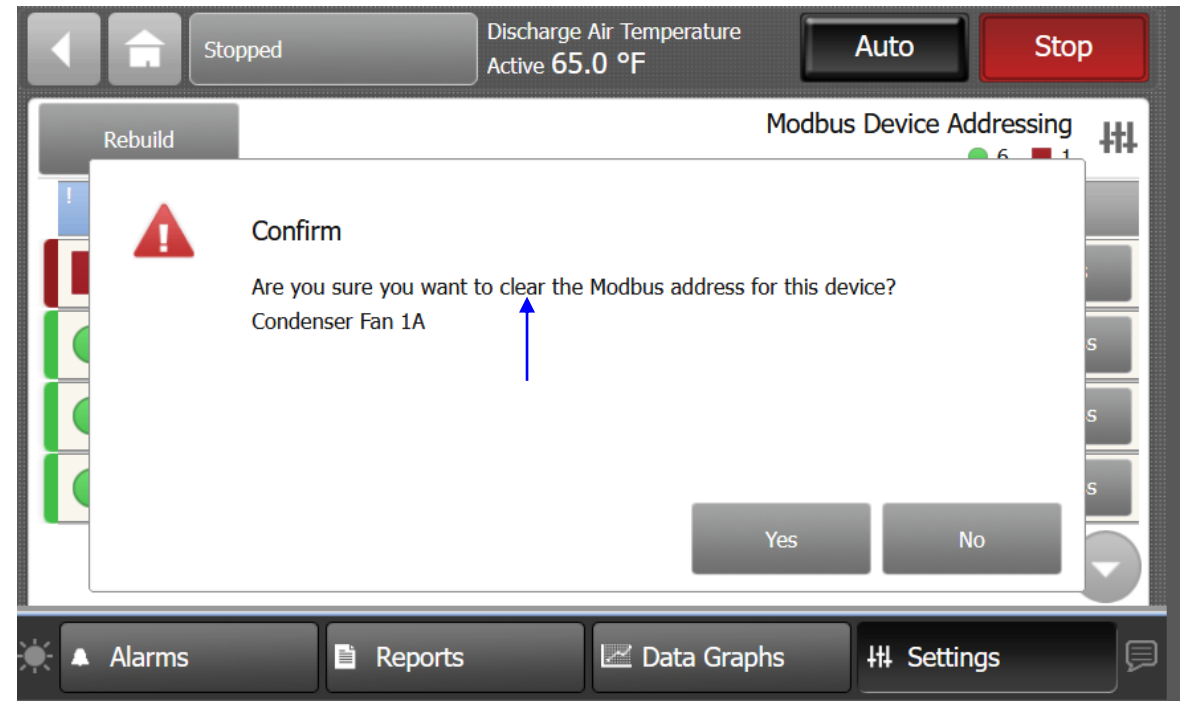
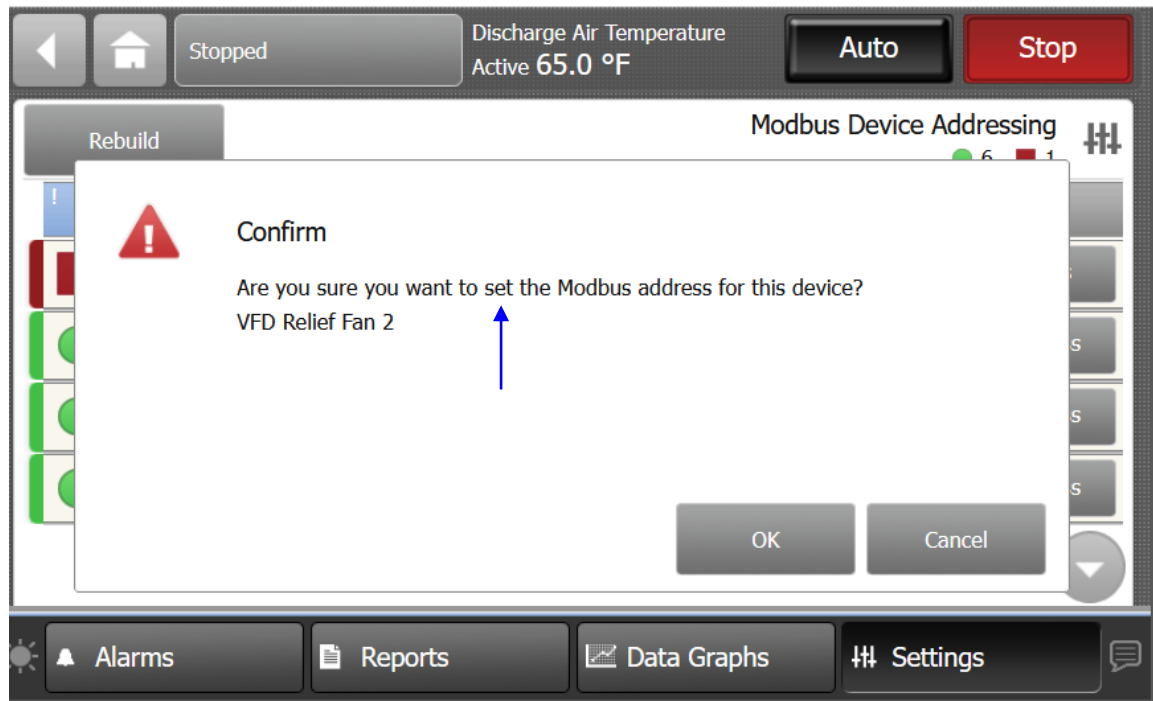
Indicator for # Devices Addressed vs. # Devices Not Addressed

Press "Set Address" button to Set the Modbus Address

Press "Clear Address" button to Set the Modbus Address back to vender default

# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

## Modbus Device Addressing



# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3

## Modbus Device Addressing Devices Available

| Modbus Device                       | Modbus Device Addressing Display Name* | RTU Address | Modbus Device            | Modbus Device Addressing Display Name* | RTU Address   |               |
|-------------------------------------|----------------------------------------|-------------|--------------------------|----------------------------------------|---------------|---------------|
| <b>EC Relief Fans – IPAK 3 Only</b> |                                        |             | <b>EC Condenser Fans</b> |                                        | <b>Type 1</b> | <b>Type 2</b> |
| Relief Fan 1                        | VFD Relief Fan 1                       | 9           | EC Condenser Fan 1A      | Condenser Fan 1A                       | 31            | 60            |
| Relief Fan 2                        | VFD Relief Fan 2                       | 10          | EC Condenser Fan 1B      | Condenser Fan 1B                       | 32            | 61            |
| Relief Fan 3                        | VFD Relief Fan 3                       | 11          | EC Condenser Fan 1C      | Condenser Fan 1C                       | 33            | 62            |
| <b>Leak Detection</b>               |                                        |             | EC Condenser Fan 1D      | Condenser Fan 1D                       | 34            | 63            |
| Refrigerant Leak Detector A         | Refrigerant Leak Sensor A              | 51          | EC Condenser Fan 2A      | Condenser Fan 2A                       | 40            | 70            |
| Refrigerant Leak Detector B         | Refrigerant Leak Sensor B              | 52          | EC Condenser Fan 2B      | Condenser Fan 2B                       | 41            | 71            |
| Refrigerant Leak Detector C         | Refrigerant Leak Sensor C              | 53          | EC Condenser Fan 2C      | Condenser Fan 2C                       | 42            | 72            |
| Refrigerant Leak Detector D         | Refrigerant Leak Sensor D              | 54          | EC Condenser Fan 2D      | Condenser Fan 2D                       | 43            | 73            |

\* The Modbus Address Tool Display Name matches the Comm Loss nomenclature.

# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3



# Symbio™ 800 – IPAK 1, IPAK 2, IPAK 3 – Q & A

Q: Can all Condenser Fans be addressed at the same time?

A: No, each fan will need to be addressed separately. All the Modbus devices are on the same network, so each fan will need to be isolated before setting the address. For example, on a 4 fan / circuit unit, if all 4 fans are being replaced, unplug 3 of the 4 fans to isolate fan 1A, set address. Then, plug in 1B, set address, etc.