

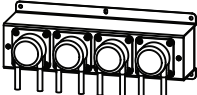


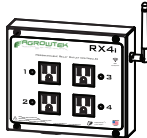
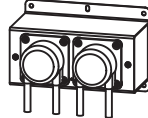

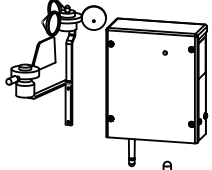



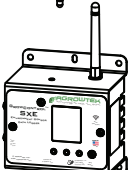




Agrowtek's new intelligent sensors, pumps and relays feature the MODBUS protocol allowing easy integration with PLC and other OEM control applications.





MODBUS is a popular industrial digital protocol operating on an RS422/485 bus topology and using standardized commands to read and write data from devices. Each device can be assigned a unique address between 1-247.

Sensors	Relays	Peristaltic Pumps	Accessories
 <p>SXC Climate Sensor</p>	 <p>RX1i Controlled Outlet</p>	 <p>AD4i Quad Pump</p>	 <p>HX8 GrowNET Hub</p>
 <p>SXH Hydro Sensor</p>	 <p>RX4i Controlled Outlets</p>	 <p>AD2i Dual Pump</p>	 <p>LX1 AgrowLINK USB GrowNET Bridge</p>
 <p>SXW Weather Station</p>	 <p>RD8i Controlled Relays</p>	 <p>AD1i Single Pump</p>	 <p>LX2 ModLINK MODBUS GrowNET Bridge</p>
 <p>SXE Environment Monitor</p>	 <p>MX1i AC & DC Fwd/Rev Motor Relay</p>		 <p>LX3 Analog 4-20mA Break Out Board</p>





MODBUS Connections

Agrowtek's sensors connect via standard Ethernet cable and RJ45 connectors for easy, low cost implementation. Operates on 3.3V full-duplex RS422 or use the LX2 ModLINK for full-to-half duplex conversion on 5V RS485 busses. HX8 hub connects 8 full-duplex devices to a single bus connection and can be daisy-chained as needed.

MODBUS Data

-  **Sensor Data**
Integer and Floating Point
-  **Calibration**
Zero, Span & Analog adjustment
-  **Relay Coils**
-  **Manufacturing Data**
Serial No., DOM, HW/FW Rev

MODBUS Specifications

-  **RTU** MODBUS RTU protocol
-  4-Wire RS422 Full Duplex (3.3V)
2-Wire RS485 Half Duplex (5V) with LX2
-  Auto-Baud feature detects MODBUS speed
9600 or 19200 baud rates
-  Sensors powered over RJ45 port
for single cable installation