



K50U

Ultrasonic Sensor



Ultrasonic Sensor for Wireless Level and Tank Monitoring

- Easily monitor remote or mobile tanks and totes
- Housing is designed for easy installation
- Completely wireless solution with 2+ year battery life at default sample rates





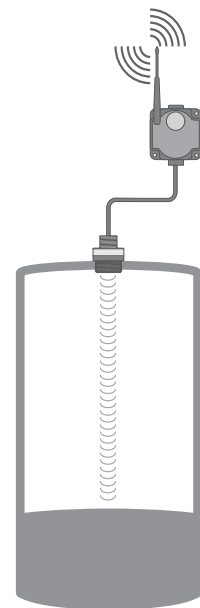
Monitor Tank Levels On Site or Remotely

- Provides a distance measurement from the target to the sensor
- Monitor wirelessly to avoid long cable runs
- Built-in temperature compensation for reliable measurement
- Threaded housing for easy installation

1-Wire Serial K50UX1ARA or K50UX1CRA

- 1-wire serial interface
- One ultrasonic sensor to one node with 1-wire serial interface
- One meter or three meter sensing range

Select One Wireless Node



Ideal for monitoring portable tanks

Modbus K50UX2ARA or K50UX2CRA

- Functions as a modbus slave device via RS-485
- Can be connected via a wireless or wired modbus network
- One meter or three meter sensing range

Select One Modbus Radio

Designed to work with Sure Cross® Wireless Nodes and Data Radios

Simple Monitoring



Q45U Node

- Easy-to-use without software
- Attractive price point
- LED for local indication
- Two AA lithium batteries

Monitor Many Sensors Over Long Distances



P6 Performance Node

- Expandable up to 47 Nodes
- Cover large areas with 900 MHz, 1 Watt power
- LCD screen displays register values
- D-cell lithium battery or 10 to 30 V dc

Monitor Many Sensors While Using Multiple Hops



H6 MultiHop

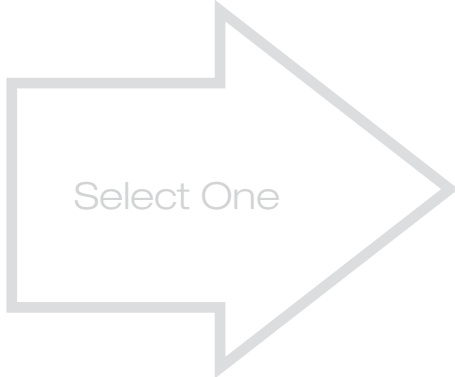
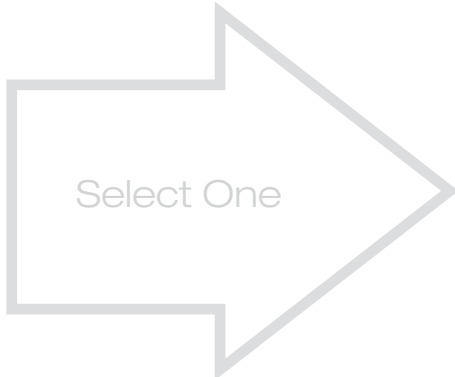
- Expandable up to 100 slave radios
- Use repeaters to extend range and circumvent obstacles
- Modbus host controller required
- D-cell lithium battery

Modbus Slave



MultiHop Modbus Slave with RS-485

- Connect to any modbus network
- Expanable up to 100 slave radios
- Use repeaters to extend range and circumvent obstacles
- Modbus host controller required



Modbus TCP/IP or Ethernet IP



DXM100



PLC



Local Wireless Network

Discrete and Analog Outputs



Performance or PM Gateway



PLC



Local Wireless Network

Serial Interface



MultiHop Data Radio



PLC (required)

Modbus TCP/IP or Ethernet IP



DXM100



PLC



Local Wireless Network



K50U Ultrasonic Sensor

Models	Description
K50UX1ARA	Ultrasonic sensor with 1-wire serial interface; 1 m sensing range
K50UX1CRA	Ultrasonic sensor with 1-wire serial interface; 3 m sensing range
K50UX2ARA	Ultrasonic sensor that functions as a modbus slave device via RS-485; 1 m sensing range
K50UX2CRA	Ultrasonic sensor that functions as a modbus slave device via RS-485; 3 m sensing range



Nodes with 1-Wire Serial Interface

Models	Description	Frequency
DX80N9Q45U	Q45 Wireless Node with integrated battery	900 MHz
DX80N2Q45U		2.4 GHz
DX80N9X1S-P6	1-wire Serial Performance Node with integrated battery	900 MHz
DX80N2X1S-P6		2.4 GHz
DX80N9X6S-P6	1-wire Serial Performance Node 10 to 30 V dc	900 MHz
DX80N2X6S-P6		2.4 GHz
DX80DR9M-H6	1-wire Serial Modbus MultiHop Slave with integrated battery	900 MHz
DX80DR2M-H6		2.4 GHz

MultiHop Modbus Radios

Models	Description	Frequency
DX80DR9M-H	MultiHop Modbus Radio	900 MHz
DX80DR2M-H		2.4 GHz
DX80DR9M-H1E	MultiHop Modbus Radio with I/O — battery	900 MHz
DX80DR2M-H1E		2.4 GHz
DX80DR9M-HB1	MultiHop Modbus Radio with I/O — Board model	900 MHz
DX80DR2M-HB1		2.4 GHz

See website for other models

DXM100 Controller

Models	Description	Frequency
DXM100-B1R1	DXM100 Controller with DX80 Gateway preconfigured as a protocol converter	900 MHz
DXM100-B1R3		2.4 GHz
DXM100-B1R2	DXM100 Controller with MultiHop Data Radio	900 MHz
DXM100-B1R4		2.4 GHz

See website for other models

PM Gateways (10-30 V dc)

Models	Description	Frequency
DX80G9M6S-PM2	4 Discrete in, 4 Discrete out	900 MHz
DX80G2M6S-PM2	2 Analog in, 2 Analog out	2.4 GHz
DX80G9M6S-PM8	6 Discrete in, 6 Discrete out	900 MHz
DX80G2M6S-PM8		2.4 GHz

See website for other models

Supply Voltage	3.6 to 5.5 V dc or 10 to 30 V dc
Current	Active comms: 11.3 mA at 30 V dc
Indicators	Two LEDs: Red and green
Construction	Housing: PBT polyester Transducer: epoxy/ceramic composite
Resolution	Resolution: 0.1% of distance (1.5 mm minimum)
Sensor Connection	1 1/4 in NPT connection
Cable Connection	Integral 5-pin M12/Euro-style male quick disconnect (QD)
Environmental Rating	NEMA 6P, IEC IP67

Accessories

Brackets



BWA-BK-006
Mounts both the K50U Ultrasonic sensor and a Wireless Q45 Node

Cordsets



Type	Length	Model
5-Pin M12/Euro-Style—Double-Ended	0.31 m (1 ft)	DEE2R-51D
	0.91 m (3 ft)	DEE2R-53D
	2.44 m (8 ft)	DEE2R-58D

