

LINKMATE™ WSR

Switch Router Pair

9304-3041000



FEATURES

- ▶ **Wireless Bluetooth**
2.4GHz, 1000 ft. LOS
- ▶ **Simple Installation**
Power up, link and connect
- ▶ **Transmitter/Receiver Pair**
Sold as TxD and RxD pair
- ▶ **TxD x4 Switch Inputs**
Dry Contact or 0-30 Vdc
- ▶ **TxD Sensor Power**
6.6 Vdc Low Current Source
- ▶ **RxD x4 Transistor Outputs**
Open-Collector 0-30 Vdc
- ▶ **Long Battery Life**
10+ day battery reserve
- ▶ **Integral Solar Charger**
Two-Season 0.4 Watt panel
- ▶ **LED Status Indicators**
Power, Link and Switch Event

More Features ...

- ▶ **Low Cost**
Half the cost of other brands
- ▶ **Clear Smokey Cover**
Excellent user status viewing

APPLICATIONS

- ▶ **Plunger Arrival Sensing**
- ▶ **Tank Level Sensing**
- ▶ **Pump Shut-Down**
- ▶ **Compressor Control**
- ▶ **Chemical Injection**
- ▶ **Latching Relay Control**
- ▶ **Proximity Switch Sensing**



Compact — LinkMate™ x4 switch TxD/RxD router provides a low cost solution for wireless switch routing. Whether the need is for a wireless plunger arrival sensor, tank level sensor or shut-down control, the LinkMate Switch Router is the right choice at the right price.

Rugged and durable, LinkMate's gasket sealed, enclosure protects against harsh weather, corrosive gases, salt spray and the physical demands of industrial environments. An easily accessible, removable terminal block provides simple sensor hook up. Conformal coated electronics and gold plated contacts round out the LinkMate suite of environmental protection features.

Switch input features include four independent switch sensor inputs with advanced SmartSwitch™ technology. A TxD switch event occurs when any one of the four (4) switch inputs transition from a high (Off) state to a low (On) state. Although the switch input may remain On for some time, only one switch event is acknowledged until after the switch input returns to the high (Off) state. The SmartSwitch™ technology eliminates registering multiple switch events associated with a single, long term switch closure.

Switch Output features include four (4) independent switch outputs that utilize solid-state transistor technology for reliable, low resistance switch control. RxD switch outputs are configured for low-side, open-collector switch control. These outputs are in a normally high (Off) state until a switch event alert is received from a TxD unit. Upon receiving the switch event alert, the RxD unit turns on the associated output transistor, shorting the DO output to the common ground connection.



SmartSwitch™ Technology

Reliable switch detection with multi-trigger lockout.

Auxiliary Sensor Power on the TxD unit only provides an independent sensor power source to operate low power switch sensors. Typical use is to power 3-Wire plunger arrival sensors.

Flexible power system uses rechargeable, NiMH batteries or an auxiliary power source. An external power jack allows easy hook-up to alternate power sources for battery charging. Auxiliary power sources may be used with or without rechargeable batteries installed.

Reliable, long term performance is a major benefit gained from the evolution and refinement of LinkMate's advanced design. Patented SunSmart® power management technology ensures reliable, long term performance. All connections are protected from static electric shock. A simple user interface, low power operation and rugged packaging provide a high level of field reliability.

LINKMATE™ WSR



P/N 9304-3041000 LinkMate TxD - Transmitter and RxD - Receiver pair shown . Clear, smoked front cover allows easy observation of LED status indicators. No external wireless antenna required.

Switch Router Specifications

Enclosure

Weight	1.0 lbs (0.5 kg) each Shipping 2.5 lbs (1.1 kg)
Dimensions	3.5" W x 4.0" H x 3.5" D (9 cm x 10 cm x 9 cm)
Type	Gasket Sealed NEMA 4x
Material	Thermoplastic

Power

Standard	x3 AA Nimh Batteries 3.6 Vdc @ 1250 mAh 10+ Day reserve power
Drain	< 20 mW Average
Sensor	TxD Auxiliary Power +Vo Output Pins 6.6 Vdc @ < 10 mA

Charging

Solar	Shatterproof Solar Panel 0.4 Watt Panel - Attached
External	2 Watt Panel - Optional

Display

Type	LED Indicators Blinking Functions: ● —Power ● —Link ● —I/O Event
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Temperature

Operating	-20°F to +150°F (-30°C to 65°C)
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TxD Inputs

Inputs	x4 0-30 Vdc Logic Normally High Dry Contact switch Normally Open 15kV static protection
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RxD Outputs

Outputs	x4 0-30 Vdc @ 2 A NPN Open-Collector Normally Open Common Ground
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Wireless

Type	Bluetooth 802.15.4 2.4 GHz, 16-Channels 1000 ft. (300 m) LOS
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Certifications

Non-Incendive,
Intrinsically Safe for Use in
Class 1, Division 1 and 2,
Group C and Group D
Hazardous Locations

DISPLAY ITEMS

LED Status Indicators

Viewed through smokey cover lid.

- **RED - POWER**
Immediate power On blink.
2 second blink - Not Linked.
10 second blink - Linked
- **YELLOW - LINK**
No blink - Not Linked.
2 second blink - Linked.
- **GREEN - SWITCH EVENT**
For both TxD and RxD units.
1 blink - I/O connection 1.
2 blinks - I/O connection 2.
3 blinks - I/O connection 3.
4 blinks - I/O connection 4.

POWER CONTROL

Push-Button Toggle Switch
Push to power On.
Push to power Off.

EASY INSTALL

- Remove terminal block.
..... Make switch connections
..... Re-Insert terminal block
- Remove smokey cover lid.
..... Press power button
..... ● LED flashes once
..... Replace smokey cover lid
- With TxD/RxD units powered.
..... Observe ● LED
..... Units linked when blinking
- Close any TxD switch input.
..... Observe TxD ● LED
..... Observe RxD ● LED
..... Blinks match I/O number

INTEGRAL SOLAR PANEL

- 20x Power drain of units.
- Two-Season flip-up mount.

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