



Matko Wireless Installation Manual

XT Series: -XT100 -XT200 -XT300

Transceiver Setup



Figure 2 –XT300 Transceiver

- 1. Set the upper 5 DIP switches on the transceiver to the same baud rate as the indicator. If all switches are set to off or more than one switch is turned on then the unit will default to 9600 baud
- 2. Set the dip switch 1 to 4 on the transceiver for a system ID. There are 16 possible system IDs available 0 (all off) to 15 (all on). If more than one wireless system are present each system requires a unique ID
- 3. Press the CONFIG button on the transceiver to save the dip switch settings. The three green configuration LEDs will illuminate as setup progresses. LED 1 indicates setup initiated. LEDs 1 and 2 indicate internal communication established. LEDs 1, 2, and 3 indicate setup complete. If there is a problem with configuration the red CONFIG LED will blink every 5 seconds up to 6 times as internal communication is reestablished. The red CONFIG LED will then blink several times rapidly. Wait a minimum of 5 seconds before pressing CONFIG again.
- 4. Wire the transceiver to the indicator according to Figure 1. When properly wired the corresponding LED (RS232, CLOOP, or RS422) will blink with each data transmission

Receiver Setup



Figure 3 – XT300 Receiver

- Set the dip switch 5 to 9 on the transceiver to the same baud rate as the indicator. If all switches are set to off or more than one switch is turned on then the unit will operate at 9600 baud
 Set the dip switch 1 to 4 on the transceiver for a system ID. There are 16 possible
- system IDs available, 0 (all off) to 15 (all on) for the XT300, 2 IDs for the XT200 and 1 ID for the XT100. If more than one wireless system is present each system requires a unique ID. All transmitters and receivers on the same system must have the same system ID
- 3. Press the CONFIG button on the transceiver to save the dip switch settings. The three green configuration LEDs will illuminate as setup progresses. LED 1 indicates setup initiated. LEDs 1 and 2 indicate internal communication established. LEDs 1, 2, and 3 indicate setup complete. If there is a problem with configuration the red CONFIG LED will blink every 5 seconds up to 6 times as internal communication is re-established. The red CONFIG LED will then blink several times rapidly. Wait a minimum of 5 seconds before pressing CONFIG again.
- 4. The RX LED will blink to indicate that the scoreboard is receiving the wireless signal

× ×	Indicator	Pin	Display	
Indicators with Active 20 mA Output	+20 mA	6	CL (+)	
	-20 mA	5	CL (-)	
Indicators with Passive 20 mA Output	+20 mA	1	+9 VDC	
		2	GND -JUMP	
		5	CL (-) -JUMP	
	-20 mA	6	CL (+)	
Indicators with RS232 Output	GND	2	GND	
	TXD	3	232 RXD	
Indicators with RS422 Output	TX 422A (+)	7	RX 422A	
	TX 422B (-)	8	RX 422B	
Figure 1 – Wiring Diagram				

Wiring Diagram

Notes:

-Mount all units in a direct line of sight with each other with all antennas on the same plane (all vertical for example)

- Meets FCC (USA), IC (Canada), and EPSI (Europe) Rules and Regulations

Product Comparison

	XT100	XT200	XT300
Baud Rate			
1200			
2400			
4800			
9600	9600 (Fixed)		
19200	, ,		
Line of Sight Distance			
Outdoor			
¹ / ₄ Mile			
¹ / ₂ Mile			
1 Mile			
Indoor			
75 Feet			
150 Feet			
300 Feet			
Protocol			
RS232			
20 ma CL Active			
20ma CL Passive			
RS422			
RS485			
Network ID's	1	2	16
Configuration	Fixed	In Field	In Field
Enclosure	NEMA 4	NEMA 4	NEMA 4

Replacement Part Numbers

Part Number	Description
XT-ANT	2.4 GHz antenna for all XT Series models
XT100 Receiver	XT100 Series receiver mounted internally to an SBL Series Remote Display. Fixed at 9600 Baud rate and 1 System ID
XT200 Receiver	XT200 Series receiver mounted internally to an SBL Series Remote Display. Selectable Baud Rate and 2 System IDs
XT300 Receiver	XT300 Series receiver mounted internally to an SBL Series Remote Display. Selectable Baud Rate and 16 System IDs
XT100 Transceiver*	XT100 Series Transmitter/Receiver in a NEMA 4 case. Fixed at 9600 Baud rate and 1 System ID
XT200 Transceiver*	XT200 Series Transmitter/Receiver in a NEMA 4 case. Selectable Baud Rate and 2 System IDs
XT300 Transceiver*	XT300 Series Transmitter/Receiver in a NEMA 4 case. Selectable Baud Rate and 16 System IDs

*Any serial devices can be connected using XT Series Wireless transceivers. PCs can be connected to printers or multiple indicators can be networked together... Matko remotes are not required for a wireless system.