



**MAGNETEK**  
MATERIAL HANDLING

**MLTX**

## Technical Specifications

Technical Bulletin #: MLTX Technical Bulletin

### Telemotive

#### System Specification

<i>Temperature Range:</i>	-22 F to 158 F (-30°C to 70°C)
<i>Operation Range:</i>	
Non-Licensed Part 15	up to 300 feet (91.44 M)
Licensed Part 90	up to 500 feet (213.36 M)
<i>Humidity Range:</i>	95% Non-Condensing
<i>Environmental Protection:</i>	IP66 Transmitter Nema 4 Receiver Engineered versions may vary with design requirements
<i>Frequency Range:</i>	
Non-Licensed Part 15	430 to 439.8 MHz
Licensed Part 90	72 to 76 MHz 450 to 470 MHz
<i>Modulation:</i>	FSK
<i>Peak Frequency Deviation:</i>	40 kHz (Part 15) 3 kHz (Part 90)
<i>Frequency Generation:</i>	Microprocessor controlled
<i>Response Time:</i>	Approximately 40 ms
<i>Baud Rate</i>	9600 bps (Part 15) 2400 (Part 90 – cont. carrier) 4800 (Part 90 – TMS)
<i>Humming Distance</i>	
<i>Security:</i>	16 bit access code
<i>Certifications:</i>	FCC Approved
<i>Diagnostics:</i>	On-board diagnostic system with LED indicator, transmitter and receiver power status

#### Battery and Charger

<i>Battery Type</i>	
<i>Rechargeable:</i>	7.2 V NiMH, 12 V NiMH
<i>Non-Rechargeable:</i>	9V Alkaline
<i>Battery Capacity:</i>	1900 mAh
<i>Service Life</i>	
<i>Rechargeable:</i>	500 cycles
<i>Alkaline:</i>	1 cycle
<i>Battery Contacts:</i>	Gold Plated
<i>Battery Chargers:</i>	Maximum 3 chargers per power supply
<i>Charger Power:</i>	120 VAC 60 Hz
<i>Battery Charge Time:</i>	Fast Charge: 1 Hour
<i>Trickle Charge:</i>	12 Hours

#### Transmitter Component Specifications

<b>Levers:</b>	
Rated	in excess of 5 million cycles
# Per transmitter	up to 7
<b>Toggles:</b>	
Type	2 position single pole, 2 position double pole, 3 position double pole maintained, 3 position double pole momentary
Rated	MIL-S-83731
# Per transmitter	dependent on levers and Signaling (TMS, TDMA, and Continuous)
<b>Push Button:</b>	
Type	Single Pole or Double Pole
Rated	250,000 Operations at 1 AMP at 28 VDC (we use the product at a lower rating)
# Per transmitter	dependent on levers and Signaling (TMS, TDMA, and Continuous)
<b>Magnet Toggles:</b>	
Type	Lift to operate, 1 position maintain, 2 position maintain, 1 side momentary and 1 side maintain
Rated	MIL-S-8834
# Per transmitter	dependent on levers and Signaling (TMS, TDMA, and Continuous)
<b>E STOP:</b>	
Type	Push/Pull
Rated	10,000 cycles
# Per transmitter	1
<b>Code-Plug:</b>	
Type	Twist to lock down
Rated	N/A
# Per transmitter	Up to 4 depending on other components
<b>LED:</b>	
Type	Red
Rated	N/A
# Per transmitter	1 (standard) up to 2 are possible
<b>Rotary Switch:</b>	
Type	2 positions and 3 positions
Rated	25,000 cycles minimum
# Per transmitter	dependent on levers and Signaling (TMS, TDMA, and Continuous)
<b>Key Switch:</b>	
Type	Turn to operate removable in one position (two types available)
Rated	N/A
Seal	IP6
# Per transmitter	1



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### Transmitter Specification

Type:	Belly Box with levers
Weight:	Dependent on configuration. Approximately 3 lbs.
Dimensions:	Approximately 10" x 4.95" x 6.8"
Antenna:	Built-in
Functions:	Up to a maximum of 7 levers with 8 auxiliaries
Power Out:	Unlicensed – Part 15 Compliant Licensed – 100mW
Passed the following mechanical tests:	
IEC 68-2-34 Random Vibration	
IEC 68-2-27 Shock Testing	
IEC 68-2-31 Drop & Topple	
SAE 1211 Dust Testing	
IP 66	

