



User's Manual

Pocket-MFSL Transmitter

1. DESCRIPTION

The Pocket-MFSL transmitter has a coder board with 11 digital channel(DK) inputs. It includes a Low Voltage Indicator (LVI) warning, 1% duty cycle and 2 seconds turn off time. It also includes switch detection on power up to ensure that no switch is active when the battery is inserted. The RF section uses FM-RF with 915MHz frequency and 76800 baud rate.

Note: Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference that may cause undesired operation of the device.

2. TECHNICAL SPECIFICATIONS

Temperature Range	-20° to +70° Celsius
Supply Voltage Range	2-5 VDC
Supply Current	42mA max 28mA for 5 seconds on startup
Outputs	RF-Data 2 LED
Inputs	11 digital
RF Specifications	
Frequency	915.0 MHz
Modulation	FM-Binary FSK
Deviation	64KHz
Output Power	5dBm

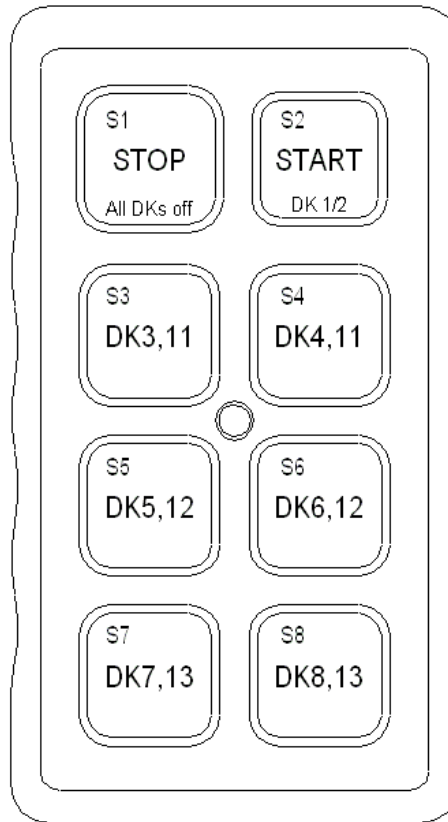
Note: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

3. TRANSMITTER PARTS



4. FUNCTIONAL DESCRIPTION

4.1. General Description



- This transmitter is designed to transmit with RF-transmission duty cycle of 1%.
- The transmitter will turn off automatically 2 seconds after all buttons are released.
- STOP (S1) is an emergency stop button that has priority above all other buttons.
- START (DK1/2) is a start or horn function. This button can be used to reset error in the receiver (Overload/ Main Contact error).
- DK3-8, DK11-13 are regular digital channels

4.2. Switch Error Detection

The transmitter unit has a function that detects when a switch is broken. If a switch is active when a battery is inserted the unit will go into an error state. The Red LED will come on and stay on until the active switch is turned off.

4.3. Low Voltage Indicator

The unit has a low battery detection function. Once the battery level becomes low, the Red LED will come on solid while the Green LED keeps blinking with every telegram. If the voltage level reaches a critical level, the transmitter will only send Emergency Stop telegrams.

4.4. LED Description

Green Flashing: Telegram Transmitted
Red ON, Green Flashing: Low Voltage Pre-Warning
Red Flashing: Emergency Stop Transmission
Red Flashing/Green Flashing at 500ms interval: Memory Error
Red Solid (on power up): Switch Error