Engine Alarm Pager

The MurCal Engine Alarm Pager can be used for many different applications. When used with our controllers, an output can be turned on for an alarm or shutdown condition. Another option is to wire the pager to a prelube contact that will then send a warning page to alert the user that the engine is about to start. The MurCal pager can also be wired in parallel with a warning light to give the audible alarm in addition to the visual alarm. The ability to have the alarm at a different location than the engine adds to the control that the user has over his/her application.

Operating The Pager

To Turn the Pager On/Off: Pressing the ON/OFF button will turn the pager on or off. The pager will beep once when it is turned on, and will beep twice when it is turned off. When inserting a battery, the pager will beep twice and then turn off.

Code Learning

1)   Connect the transmitter's red and black wires so that the transmitter is sending the signal constantly.

2)   Turn the pager OFF.

3)   Press and hold the pager's RESET button, then press the ON/OFF button once. Release both buttons. The pager will beep ten (10) times.

4)   After the ten beeps described in the previous step, and within a period of thirty (30) seconds, the pager will enter "Code Learning Mode".

5)   If the code has been learned successfully, the pager will once again beep ten (10) times. After this audible confirmation, the pager will automatically leave code learning mode and remain on.

6)   If, during the thirty (30) second time period introduced in step 4, the RESET button is pressed, the pager will leave the code learning mode and keep the original codes. The pager will remain on.

7)   If, during the thirty (30) second time period introduced in step 4, the ON/OFF button is pressed, the pager will leave the code learning mode and keep the original codes. In this case, the pager will beep twice and be turned off.

8)   If the code fails to be learned during the thirty (30) second time period introduced in step 4, the pager will beep ten (10) times then leave the code learning mode and keep the original codes. The pager will remain on.

9)   The codes have already been learned when the pager leaves the factory.

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Receiving an Alarm Page

1) When the pager receives the trigger signal and is beeping, pressing the RESET button will stop the beeping. The pager will still be in "on" mode and will beep again unless the trigger signal is cancelled.

2) When the pager receives the trigger signal and is beeping, pressing the ON/OFF button will cause the pager to beep twice, then turn off.

Beeping Modes

Turn on the pager. Hold the RESET button down and press the ON/OFF button once. The pager will beep four (4) times. Release the RESET button after the initial four (4) beeps and the pager will demonstrate the nine (9) different "beeping modes" that are available for selection. The pager will demonstrate each of the modes in succession. The factory default is Mode 7 (one long and two short beeps).

- Mode 1 through Mode 5: Different melodies.

- Mode 6: Six (6) long beeps.

- Mode 7: One (1) long and two (2) short beeps.

- Mode 8: Three (3) short beeps.

- Mode 9: Silent mode. Red LED light flashes when triggered. No audible alarm.

Simply press the RESET button once to select the beeping mode while it is being demonstrated. The pager will beep four (4) times to confirm your selection.

During the demonstration, if you press the ON/OFF button once, the pager will beep twice and turn off.

If you choose not to make a new selection during the demonstration, the pager will emit four (4) short beeps and leave the demonstration mode. The pager will remain in the original beeping mode that was programmed prior to the demonstration.
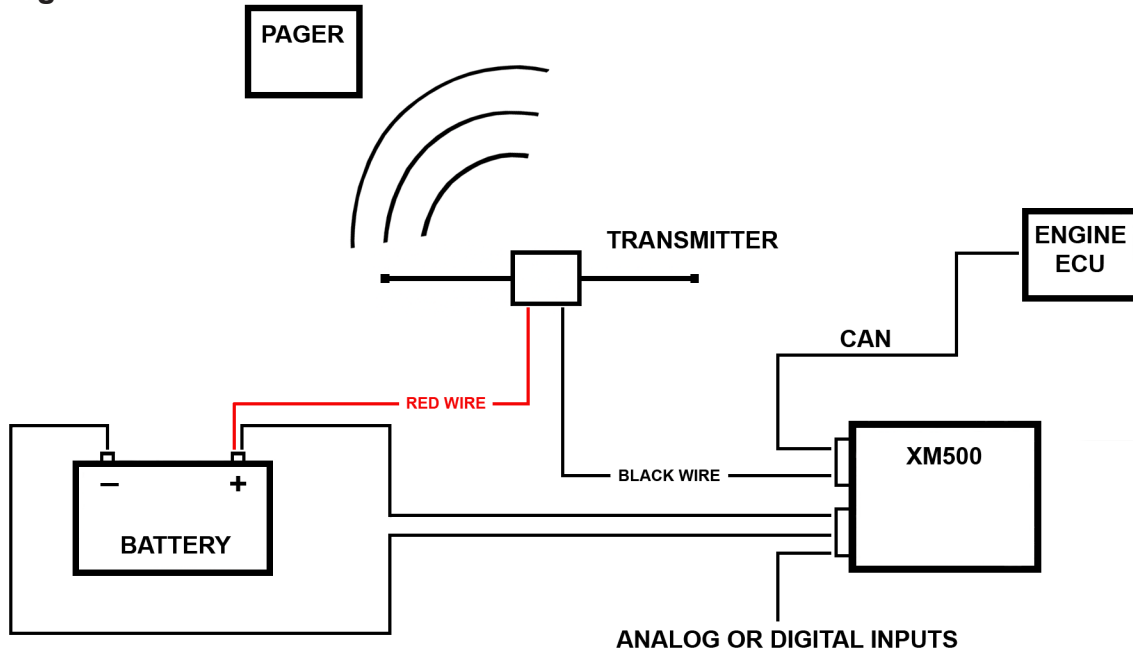
Engine Based Transmitter

The engine based transmitter will be triggered and send a trigger signal to the pager when powering on. Both a negative and positive pulse will be available to trigger the transmitter depending on the installation.

Suggested location for the antenna:

1) Mount the antenna on or near your engine, in a position where it is protected from direct high engine temperature and the weather.

2) For best results, keep the antenna at least 5 cm from large metal objects.

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Wiring Diagram

The 2-wire engine pager is available to be triggered by positive or negative contact. The above illustration shows a typical installation utilizing the Murphy XM500 CAN Bus Input/Output Module.

Specifications

ENGINE BASED TRANSMITTER

Dimensions: 19cm x 4cm x 1.5cm

Power Source: DC12V

Power Consumption: 50 mA

Output Power: 200 mW (23 dBm)

Number of Codes (addresses): 16,777,216 (24-bit)

PAGER

Dimensions: 6.8cm x 4.5cm x 1.5cm

Power Source: DC1.5V x 2

Power Consumption: 1.5 mA

Receiving Sensitivity: -106dBm

Working Range: 600 Meters in Open Field

- Do not remove the pager's silver antenna and clip or the pager will not work properly.

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