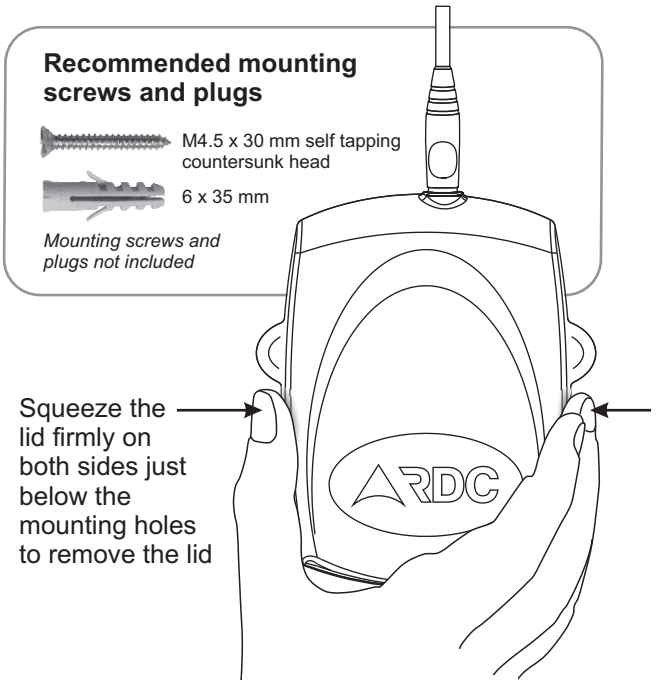
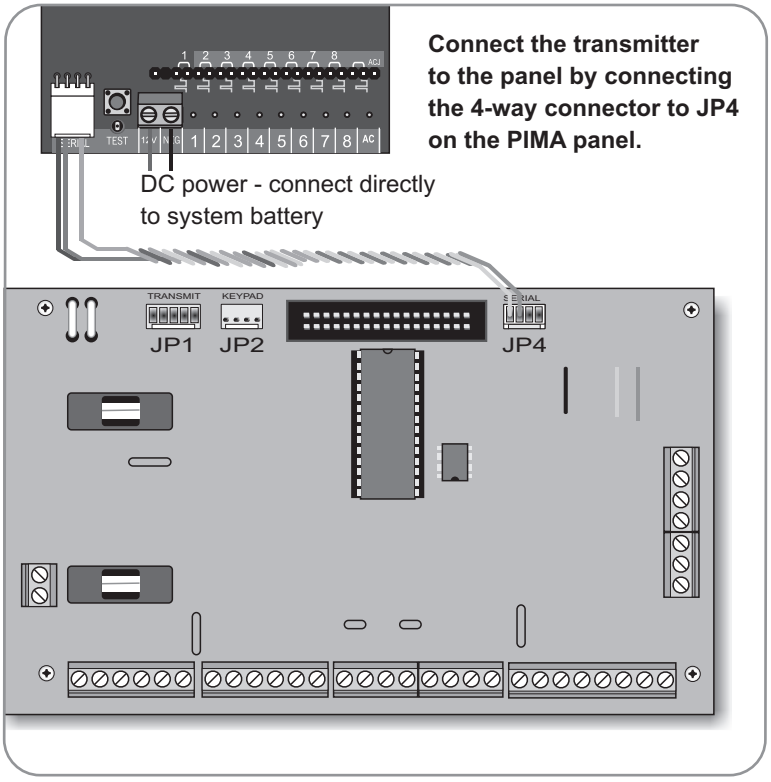
TX-7serial Pima - Installation Instructions

ADI Support
0800 234 468
RDC 24hr Standby
082 444 7176

www.radiodata.co.za





Programming the panel for radio communication

The internal radio transmitter is able to report the following telemetry conditions:

- Up to 4 partitions are supported / reported
- Up to 31 zones are reported
  (zone 32 reserved for universal or unknown zone)
- Up to 15 users / key holders are reported
  (user 16 reserved for universal or unknown user)
- Only battery low and AC fail restorals are reported
- All standard RDC type telemetries are reported

Step 1

Programme the “T” parameter in the “MS 1 Protocol” screen to “T=2” - RDC radio transmitter is installed.

Step 2

In the MS 1 & 2 “Options” in the “Communication” menu, all the parameters are disabled (‘-‘) by factory default (including after panel initializing). Enable ONLY the required telemetries with careful reference to the note below.

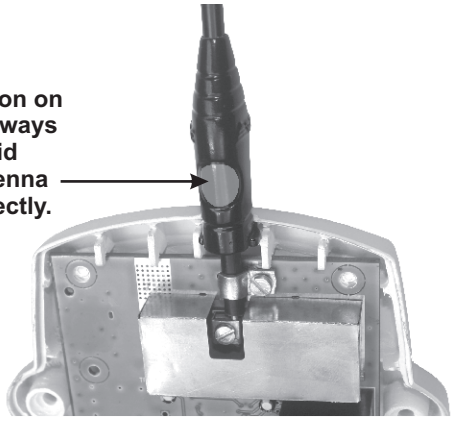
NB: ONLY ENABLE CRITICAL TELEMETRIES. Indiscriminate activation of non-critical telemetries (including Open/Close) for radio communication can lead to network congestion and may result in critical signals being lost. Panel specific telemeteries such as *keypad failure and restore, phone-line failure and restore, siren failure and restore etc.* should NEVER be activated.

LED indicates transmitter conditions:

- Transmitter standby - battery voltage correct
- Transmitting
- Mains fail
- Battery voltage too low for normal operation
- Low battery, but still able to operate
- Battery over voltage
- Incorrectly programmed

Whip antenna

The round indentation on the antenna must always face upwards. The lid will not fit if the antenna is not oriented correctly.



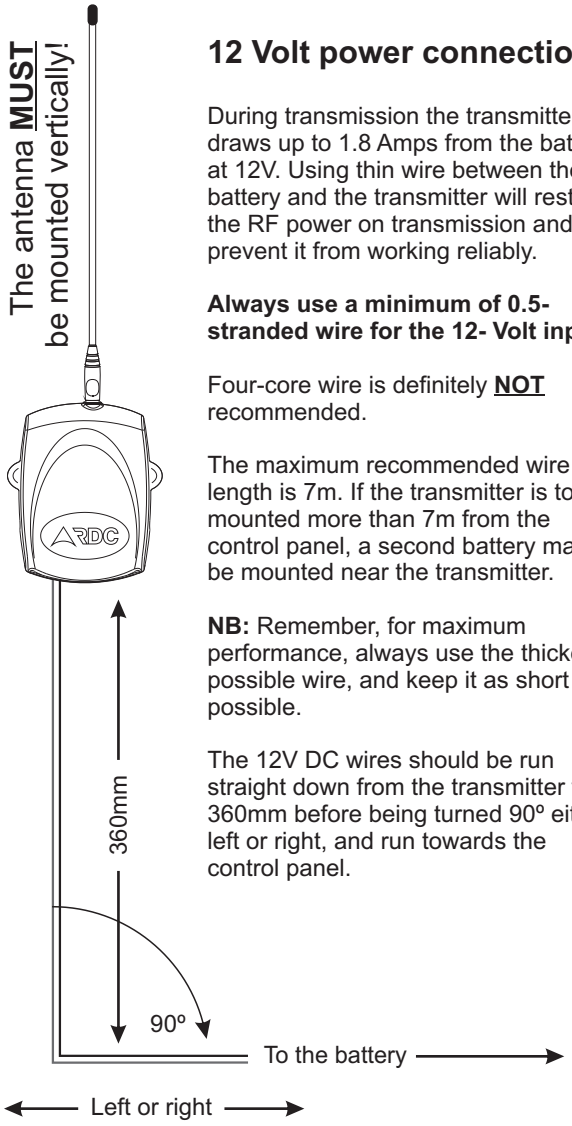
To install the antenna, slide it through the saddle and firmly into the square connector next to the screw. Tighten the square connector and saddle screws.

NOTE: The whip antenna is cut to the correct length. Cutting or lengthening the antenna will negatively affect the transmitters' performance.

The antenna must not be mounted less than 2m from any large metal object.

- The transmitter generates a very strong RF field around the antenna. This RF field can affect other electronic equipment, such as computers, television sets, music systems, and alarm equipment, ***especially passives***.
- When mounting an antenna against a wall, always check for metal objects or other electronic equipment on the other side of the wall.

PLEASE NOTE: The transmitter should never be triggered without a suitable antenna being connected. If the transmitter is used with the built in whip antenna, ensure that it is properly connected, fully extended and away from any metal obstructions. Triggering the unit without an antenna or a folded/ bent antenna may cause permanent damage to the transmitter and/or unpredictable and erratic behavior.



12 Volt power connection

During transmission the transmitter draws up to 1.8 Amps from the battery at 12V. Using thin wire between the battery and the transmitter will restrict the RF power on transmission and prevent it from working reliably.

Always use a minimum of 0.5- stranded wire for the 12- Volt input.

Four-core wire is definitely **NOT** recommended.

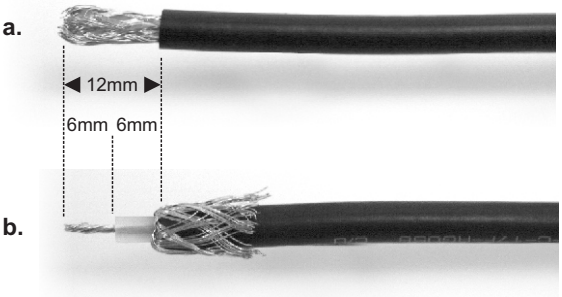
The maximum recommended wire length is 7m. If the transmitter is to be mounted more than 7m from the control panel, a second battery may be mounted near the transmitter.

NB: Remember, for maximum performance, always use the thickest possible wire, and keep it as short as possible.

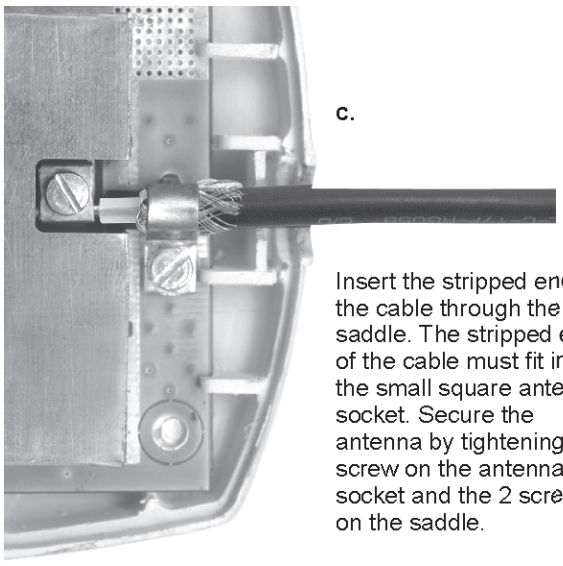
The 12V DC wires should be run straight down from the transmitter for 360mm before being turned 90º either left or right, and run towards the control panel.

Connecting a Black Max antenna to extend the range *(NOT SUPPLIED)*

Strip off 12mm of the outer insulation taking care not to damage the braiding.



Fray and pull back the braiding and strip off 6mm of the inner white insulation leaving 6mm of the inner wire exposed.



Insert the stripped end of the cable through the saddle. The stripped end of the cable must fit into the small square antenna socket. Secure the antenna by tightening the screw on the antenna socket and the 2 screws on the saddle.

NOTE: Ensure that none of the strands of braiding wire short to the inner core of the antenna cable!