

Operating Guide for RTS-DataPak-C and RTS-DataPak-C/S Circuit-Switched Data Transmission over CDMA Networks

1. Service. Service must be activated by a cellular carrier. Record the assigned Dial Number and MIN. The two numbers may be identical or different. They may already be printed on the metal label inside the door. Connect antenna to TNC connector on outside bottom of chassis.

2. AC Power. Connect earth ground to external chassis ground lug. Connect external AC wiring to three-position terminal block in shielded bottom half of I/O board. Terminate three wires as indicated on metal shield. Conductors are identified as follows:

Line or Phase 1, black or brown wire.

Neutral/Phase 2, white or blue wire.

Ground, green or green/yellow wire.

Activate external AC source (85 to 320 V). Red AC Power LED on. After a few seconds, the letter **P** (pass) is displayed. Green LED (DC PWR/MON) in steady bright/dim mode denotes standby/cellular idle. Rapid blinking, 2 sec on, 4 sec off, is ring alert, irregular rapid blinking: data transmission.

3. Display. If **OT** is displayed, press button SW2 for a few seconds to begin over-the-air activation (OTA). When OTA is finished, **P** is displayed. Depress SW2 once for signal strength. Adequate signal is indicated by numbers smaller than 90 (90 = -90 dBm). Depress SW2 a second time to display the MIN. If a serial unit is used (RTS-DataPak-C/S), depressing SW2 a 3rd time displays the baud rate, typically 9,600 baud. If a modem unit is used, depressing SW2 a third time will turn the display off. After a few minutes, the display is also automatically turned off.

4. Programming. Use a PC or laptop (8 N 1 and 9,600 baud) to connect to the DB9 setup port of the RTS-DataPak. Pressing ENTER returns the DATAPAK prompt. Typing HELP will show available commands. To begin over-the-air-activation, type OTA and press ENTER. After several messages indicate progress of programming, OTA PROGRAMMING SUCCESSFUL! is displayed.

Type STATUS to display programmed MIN, dial PHONE number, device baud rate (for serial units), RSSI, temperature, and battery voltage (if applicable). If MIN and PHONE numbers are different, type program to enter PHONE number. When programming is finished, disconnect from the serial setup port.

5. Remote Diagnostics. Obtain operating status by calling the RTS-DataPak from a PSTN-based PC or laptop equipped with a modem via a communications program such as HyperTerminal. When connected, hold down SHIFT and press 1, 2, 3, 4, 5, 6. The reply will indicate RSSI, temperature, battery voltage, and identify the modem or serial version of the RTS-DataPak.

6. Operation. If the RTS-DataPak-C series (modem version) is used, connect the metering device to the RJ11 jack. If RTS-DataPak-C/S series (serial version) is used, connect the metering device to the RS-232 or RS-485 terminal strip as applicable. In case of power failure or if the transceiver shuts down, the AutoSafe feature will automatically activate the transceiver to its programmed parameters when power returns.

7. Battery. For 12-VDC operation use the RTS-BBU or other suitable battery. Connect to 4-pin connector at top of I/O board. To prevent sulfurization of the battery, the cellular transceiver is shut down when the battery voltage drops below 10.7 volts. When a fresh battery is installed, press SW1 or apply AC power at the AC power input section to activate the RTS-DataPak.

8. Additional Information. See Technical Support at www.transtelgroup.com.

