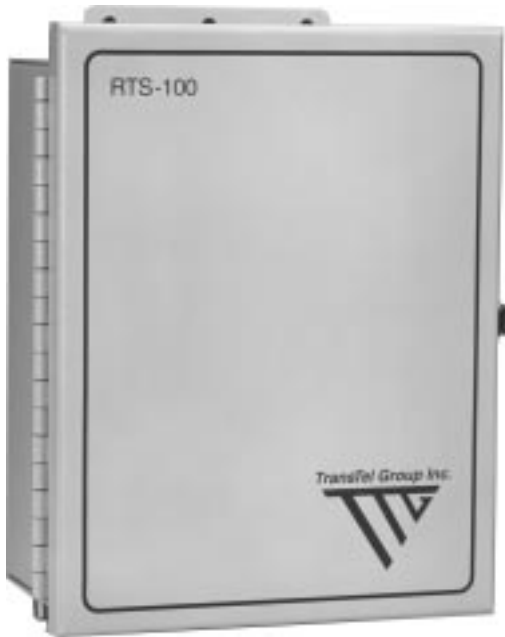


# RTS-100™ Remote Telemetry System



Self-contained cellular system provides cost-effective connection for remote telemetry/meter reading, voice, and data applications



Easy and fast installation provides instant telephone service in cellular coverage area without the high cost of line installation

NEMA 3R weatherproof enclosure with thermal shutoffs

High-reliability 120 VAC power supply

Optional 120 to 277 VAC input with autoranging power supply

Complete solar power and battery backup options

Motorola three-watt cellular transceiver

AutoSafe™ transceiver activation to prevent lockup

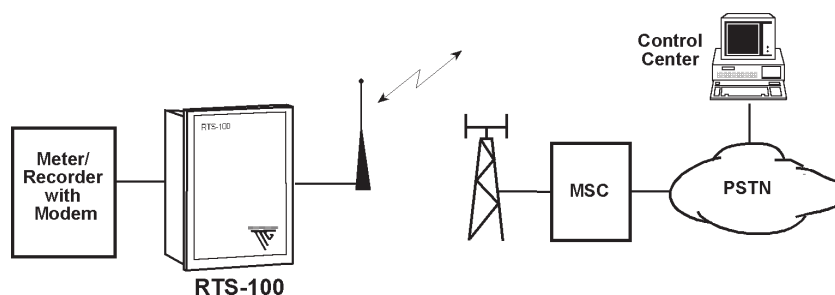
RJ11 jack for data or voice I/O

RJ45 for user programming and testing

The RTS-100 Remote Telemetry System is ideal for applications that include automatic telemetry or data acquisition (meter reading) anywhere within cellular coverage areas. The RTS-100 can be used for remote reading of data such as power usage and load management, flow meters, and status monitoring as well as remote control of user equipment. The Remote Telemetry System can also provide full telephone service at a fraction of the cost required to connect a conventional line to remote sites or within hazardous locations.

The RTS-100 features a transparent interface generating ring voltage and dial tone and permits the use of standard telephones and modems. A special circuit prevents transceiver lockup and automatically activates the cellular transceiver even if it is accidentally turned off. The RTS-100 is supplied with a weatherproof NEMA 3R housing measuring 11 inches high, 8 inches wide and 5 inches deep. The unit operates on 120 VAC and options for 120 to 277 VAC input with autoranging power supply, solar power, or battery backup are available.

The RTS-100 provides a total solution for remote data transmission or land line backup with the convenience of cellular telephone service.



# RTS-100

## Remote Telemetry System

### Specifications

**Transceiver:** Motorola Series IV Cellular Radio - rated at nominal 3 watts maximum power output, TNC antenna connector

**Power Supply:** 120 VAC, 50 watts maximum output power  
Optional 120 to 277 VAC input with autoranging supply  
Self-clinching terminal block input  
User-replaceable fuse  
Varistor and RFI filtering  
Transient and overcurrent protection for RJ11 connections  
External ground lug  
Optional battery back up, 10 hours standby, 1 hour operating  
Complete optional solar-powered assemblies for various applications

**User Interface:** RJ11 Jack for data or voice communications  
Two-wire loop start, AutoSafe automatic transceiver activation  
Ring voltage, 25 Hz, 60 Vrms, 150 V p-p  
Dial Tone: 350 Hz/440 Hz square wave  
Maximum REN=3  
RJ45 jack for cellular programming and antenna setup  
Optional Line Sensor automatically switches from land line to cellular when land line is not operational; optional modem and power management module

**Environmental:** Weatherproof NEMA 3R enclosure for outdoor use  
Thermal shutoff protection  
-40C to 60C (-40F to 140F) operating range  
-40C to 80C (-40F to 176F) storage  
5% to 95% relative humidity, non-condensing

**Mechanical:** Punch-outs for 1/2-inch conduit to accommodate electrical and telephone wires, securable latch  
Size: 11 inches H x 8.5 inches W x 5 inches D  
Weight: Approximately 8.5 pounds (including battery)

### Ordering Information

**Option Model RTS-100-N3R** Remote Telemetry System, NEMA 3R weatherproof enclosure; AutoSafe transceiver activation; suitable for use with optional battery backup (RTS-BBU).

**Option Model RTS-100-U** Remote Telemetry System, NEMA 3R weatherproof enclosure; suitable for use with optional power management module, battery backup (RTS-BBU), and Line Sensor (LS-U); dry-contact closure for indicating loss of cellular signal.

**Option Model RTS-100-S** Solar-Powered Remote Telemetry System; includes RTS-100-U or -N3R, high-output solar panel with top-pole mounting hardware, storage battery with metal enclosure, fused cabling for connection to solar panel and storage battery; excluding mounting pole.

**Option Model RTS-100-SM** Solar Powered Remote Telemetry System with Power Management Module;

**Option RTS-100-N3RH** RTS-100-N3R with 120 to 277 VAC input; autoranging power supply.

**Option RTS-SPM** Power Management Module

**Option RTS-BBU** Rechargeable battery kit, mounting bracket, 12 VDC 2-AH battery; for use with all RTS-100 models.

**Option RTS-ACC** 3-conductor 6-foot AC power cord.

**Option LS-U** Line Sensor for use with Model RTS-100-U.

**Option UT-2.5** 2.5-dB gain antenna with TNC connector

**Option ME5** 5-dB gain antenna with TNC connector; other antennas available.

**Option RTS-CAB** Antenna bracket for 3 or 5-dB gain omnidirectional antennas.

TransTel reserves the right to update the product specifications without notice.

**TransTel Group, Inc., 5555 Oakbrook Parkway, Suite 110, Norcross, GA 30093**

**Tel: 770 368-8343 Fax: 770 368-8382 Web: [www.transtelgroup.com](http://www.transtelgroup.com)**

Printed October, 1998