

## Version 7.0 Line Sensor for the TransTel ML500 System

The Version 7.0 Line Sensor offers the following features when a Telco line is connected to the RJ11 Jack marked TELCO on the rear panel of the transceiver module:

- Automatic switching to cellular transmission if the telco line has been cut or tip-ring voltage is no longer present.
- Automatic switching to cellular transmission if no telco dial tone is present when an off-hook condition occurs.
- Depending on fault condition, dry contact closure (rear panel of chassis) for an indefinite number of hours. The dry contacts can be used to activate an alarm (to be provided by user).
- Automatic switching to telco line when the fault condition has been corrected without interrupting a call in process.
- In telco mode of operation, an incoming cellular call will ring connected analog peripheral equipment (telephones, modems).
- In the telco mode of operation, it is possible to access the cellular mode by depressing the CELLULAR MODE button on the front panel of the transceiver module.

The Line Sensor module consists of a separate board. It can be accessed by extracting the transceiver module. However, prior to removal of the transceiver module, turn off the power supply and disconnect antenna and telephone cabling at the rear of the of the chassis. In addition, two captive black retaining screws (one in the extraction handle and one at the top of the module front panel) must be loosened.

Exercise great care when extracting a transceiver module and avoid any damage to the components of the module. The Line Sensor board is located at the rear section of the module. Two switches (SW1 and SW2 on the left upper edge of the Line Sensor board) control settings for closure of the dry contacts on the rear panel of the chassis. Switch settings from 0 through 9 result in the following actions:

SWITCH SETTINGS		ACTION IF TELCO LINE VOLTAGE IS LOST	ACTION IF TELCO DIAL TONE IS LOST
SW2 (left switch) Duration in Increments of 0 or 2 <sup>n-1</sup> Hours	SW1 (right switch) Activation after 0 or 2 <sup>n</sup> Minute Intervals		
0	Any setting	No alarm contact closure	No alarm contact closure
N=1 through 8: 1,2,4,8,16,32,64, or 128 hrs. n=9: indefinite number of hours or until ALARM RESET is pressed; (factory default).	0 (factory default)	Red ALARM LED on immediately for duration set with SW2.	Red ALARM LED on immediately for duration set with SW2.
	n=0 through 8 (1,2,4,8,16,32,64,128, or 255 minutes)	Alarm contact closure delayed by SW1 setting; alarm contacts on for number of hours set by SW2.	Alarm contact closure delayed by SW1 setting; alarm contacts on for number of hours set by SW2.

Use a fine-blade screw driver to change any of the settings of switches SW1 and SW2. Reinsert the transceiver module into the chassis, tighten the captive screws on the front panel of the module and connect antenna and telephone cabling at the rear of the chassis.

**Note:** If any transceiver module is equipped with a SIGNAL LED, the following conditions apply:

1. The dry contacts close (red ALARM LED on) when the cellular signal is lost regardless of the setting of SW1 and SW2 or the mode of operation (telco or cellular). The contacts remain closed until the fault condition is corrected.
2. The contacts open automatically (red ALARM LED off) when signal is again acquired or the fault condition has been corrected.