

# TSD1 Access Control Reader



## OVERVIEW

The TSD1 is a self contained device designed to decode and transmit barcoded data to a central computer using the ComputerWise TNET "REAL TIME" shop floor data collection system.

The Communications port - serves as the interface between the TSD1 and the TNET network. The port transmits data scanned by the operator to the host computer (through the TNET) and receives commands from the host

(through the TNET) to control the internal LEDs and relays. Data is transmitted in a serial asynchronous format, at a selected baud rate and parity using the TNET protocol (RJ45 modular cabling).

## TSD1 POSSIBLE USES

- Door entry and access control
- Time and Attendance Recording
- Event Tracking
- Machine Control
- Security Alarm System
- Remote Data Entry



TSD1 with Barcode Interface

Two LEDs - a red and a green LED provide operator feedback. These LEDs independently turn on, turn off, flash or pulse when the TSD1 receives specific ESCape sequences from the host. These LEDs are also used to indicate the unit is in the Setup Mode.

Two Optional Relays - provide operator feedback. These relays will independently turn on, turn off or pulse when the TSD1 receives specific ESCape sequences from the host. A Relay can be used to open a door, turn on a machine, etc.

The Barcode Interface connects to a barcode card reader, hand-held optical wand or other wand emulating device. The interface will auto-discriminately interpret/decode barcode symbols printed in several popular barcode sym-

bologies (including Code 39, Code 128, Interleave 2 of 5, UPC/EAN, and CODABAR). The TSD1 will support one or two barcode readers.

The Optional Magnetic Stripe Card Reader configuration connects to a track 1, track 2 ABA, or dual track MSCR reader. The interface can optionally output the start and stop codes.

The Proximity Card Interface (RFID) option configures the TSD1 to read proximity cards. Features include a low-profile slim design, all-weather durability, and a confirm read L.E.D.



RFID Interface



# TSD1 Interfacing



Power Adapter port (J1). Provides power to units not being powered by TNET. The DC-10 jack connects to a DV-1250/06 12VDC 500 ma power adapter.

Serial Communications port (J2) (RJ-45 jack). Connects to TLD2 and TIM1B TNET devices (RS-422). Connects to the PC during setup (RS-232 using TMA3 cable adapter).

Barcode port(s) (J3). Connects to a wandemulating barcode reader. Two barcode ports interface via a six position square post header. The standard port #1 uses pins 1-3. The optional port #2 uses pins 4-6.

## Port #1

Pin	Description
1.	5 VDC power
2.	Data input (0-5V pulses)
3.	Signal Ground

## Port #2

Pin	Description
4.	5 VDC power
5.	Data Input (0-5V pulses)
6.	Signal Ground

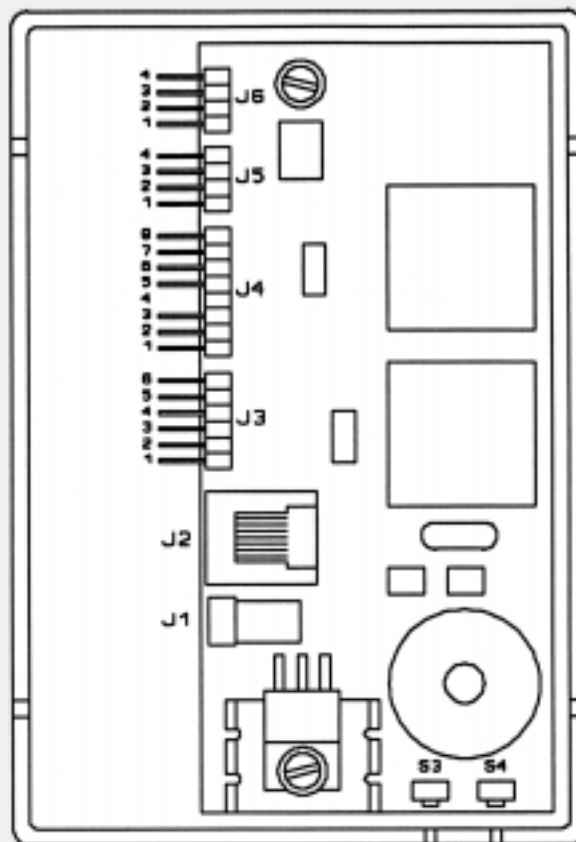
Magnetic Stripe Card Reader ports (J4)  
Track 1 and track 2 readers connected to an eight position square post header.

Pin	Description
1.	Track #2 data input
2.	Card Enable
3.	Track #2 Clock
4.	Not connected

Pin	Description
5.	5 VDC power
6.	Signal Ground
7.	Track #1 Clock
8.	Track #1 Data input

Relay port #1 (J5)

Two Relay ports interface via two four position square post headers



Pin	Description
1.	12 VDC power
2.	Relay terminal
3.	Relay terminal
4.	Ground

Relay #2 port (J6)

Pin	Description
1.	12 VDC power
2.	Relay terminal
3.	Relay terminal
4.	Ground

Setup Button(S3)

The Setup and Reset buttons are recessed momentary contact switches.

Reset Button (S4)