TR3 Specifications

24th July 24, 2007

Display

192 x 168 monochrome graphics Liquid Crystal Display with LED backlight.

Keypad

15 key membrane keypad built into polycarbonate graphics overlay.
Audible key-beep for positive depression feedback.
4 keys used as multi-function "Soft Keys" which change function as required.

Communications

Communications with a PC with either:
1. EIA RS232 or RS485 compatible interface.
   Data format   - 1 start bit, 8 data bits, no Parity, 1 Stop bit.
   Data error checking - 16 bit CRC (Cyclic Redundancy Checking).
   Baud Rates   - 9600, 4800, 2400, 1200.

2. TCP/IP network connection.
   Network Interface   - RJ45 Ethernet 10Base-T or 100Base-TX (Auto-sensing).
   Ethernet Version   - 2.0/IEEE 802.3.
   Protocols   - DHCP, AUTOIP.

Memory

256K bytes Battery Backed RAM.
32K bytes non volatile EEPROM.
Capable of storing 4900 transactions, 200 employee messages, 999 4 digit pin numbers and 6 digit passwords, 6144 bell times, 1228 8 digit job numbers.

Microprocessors

Multi processor controlled using smart input and output modules.
128K of reprogrammable FLASH program memory.

Magnetic Card Reader

Card Standard: ISO2 ABA (American Bankers Association Standard)
                       -Single track, track 2.
Operation Speed: 5 to 318 cm/second.
Life of Heads: 300,000 passes.
IEC Standards: IEC 1000-4-2 ESD
                       IEC 1000-4-3 Radiated EMC Field
                       IEC 1000-4-4 Electrical Fast Transient Burst.

Fingerprint Module (Optional)

Sensor Technology: Capacitive.
Sensing Area: 12.8mm x 18.0mm.
Image Size(pixels): 256 x 360.
Image Resolution: 508dpi.
EER: <0.1%.
Enrolment Time: <1 second.
Verification Time: <1 second.
CPU: 400MHz DSP
Memory: 1 MByte
Template Capacity: 1900 (950 users – each user has 2 templates per finger).

PS2 Port

Capable of accepting full PS2 keyboard or off the shelf barcode reader (CCD or laser).
Barcodes used: 3 of 9 Barcode standard.

Construction

Strong and sturdy 1.2mm powder coated sheet metal enclosure, wall mountable metal base.

Dimensions

Height: 191mm
Width: 202mm
Depth: 76mm

Weight

2.2Kg (optional Backup Battery and Fingerprint module not included)

Operating Environment

Temperature: 0 to 50 degrees C
Humidity: 5% to 90% non-condensing.
Indoor use only.

Storage Environment

Temperature: -20 to 70 degrees C
Humidity: 0% to 95% non-condensing.

Electrical Power

9V AC or 12V DC, 1 Amp.

Relay Contacts

Two sets of normally open contacts rated at 2 amps maximum at 24Vdc maximum.
DO NOT PUT 230Vac ONTO THESE CONTACTS.

Battery Backup (optional)

3.6V nominal 2200mAhr AA Nickel Metal Hydride rechargeable battery pack.
Normal operation of approximately 8 hours (does not include fingerprint module or
external keyboard/barcode scanner).