

- **Compatible with Mitrefinch Time & Attendance or Access Control Systems¹**
- **High Security Fingerprint Verification and Identification.**
- **Maintains Operation even in Network Downtime.**



The MF960 T&A Multi Spectral is a Time and Attendance (T&A) Terminal capable of integration into Mitrefinch Time and Attendance or Access Control Systems, and provides High Security Multi-Spectral fingerprint recognition for Employee Identification. The Terminal itself also offers additional functions such as checking Employee Flex-Time Balance and viewing previous clockings. The T&A Terminal communicates all clockings to a central database via Ethernet, and has an internal memory which enables the terminal to function in offline mode even if the connection is lost². The MF960 is the first generation of biometric T&A Terminal to be running our new Linux based operating system.

With our Web Services, Mitrefinch T&A Terminals can be configured globally to run from one single centralized location. All clocking information can be collated into one management system allowing simplified remote multi-site control. Combined with DHCP, which removes the need for a preconfigured reserved I.P address, installation, maintenance and expansion of a Mitrefinch T&A Terminal system has never been easier.

Along with this new functionality, the MF960 T&A Terminal maintains our excellent range of reader compatibility. Be it inclusion into an existing system or a brand new system, the MF960 will have a reader to suit your needs.

Minimum Software Requirements:

TMS Version: 7.21.0




F/W Version: 7.27.1



¹ The MF960 is not compatible with FES systems

² Updates will not be received and clockings will not be sent back to the central database until the link is restored.

Terminals Features

Key:  Linux only  Enhanced performance  DOS

	Linux (900 series)	DOS (600/700 series)
Improved Employee download (Web Services)		
Cloud compatible (using Web Services)	 ³	
Simulated verification		
Quality rating for enrolment by supervisor		
Remote configuration using a web browser ⁴		
Dynamic IP address assignment using DHCP		
Zones		
Employee messages		
Real-time flex balances		
Graphics display		
Audible feedback		
Visual feedback		
Online status indication		
RS232 option	 ⁵	
RS485 option		
Ethernet option		
Restricted terminal		
Door and barrier controls		
Support for Biometric readers		
Support for Barcode, Magstripe and Proximity readers		

³ Access Control is not supported on Web-Services

⁴ Change DHCP settings; Check connectivity; View boot log

⁵ Internal connections only

Technical Specifications

Power Supply

Voltage	110 ~ 120 VAC
Frequency	47 ~ 63 Hz
Current	1.2 A max @ 110 VAC
Relay Output Current	1.5 A max @ 12 VDC

Inputs

TTL Digital Inputs	x8
TTL Reader Port	x2 (Clock & Data, Weigand)
Auxiliary Keyboard Port	x1

Outputs

DPDT Relay	x1 (Common selectable Voltage Free, 12V or 0V)
SPST Relay	x3 (Common selectable Voltage Free, 12V or 0V)
Buzzer Output	x1 (12V DC)
Buffered Driven LEDs	x4 (-ve switched)

Communications

10/100Mb Ethernet Port	x1
RS485 Connection	x1
RS232 Port	x2 (Internal Only)

Environmental

IP Rating	Designed to IP20
Operating Temperature	32 °F to +131 °F
Storage Temperature	-4 °F to +185 °F
Humidity	90% RH Non-Condensing

Interfaces

Graphical Display	x1 (Dot-Matrix Monochrome)
Keyboard	x1 (Numeric)
Function Keys	x3

Form Factor

Dimensions	10.25 x 7.8 x 5.25 in (WxHxD)
Weight	3 lbs 12 oz