

Product Datasheet – Mitrefinch Multi-Spectral Biometric Terminal

- Compatible with Mitrefinch Time & Attendance, Access Control, Fire Evacuation and Labour Costing
- Utilizes award-winning, high security Lumidigm multi-spectral imaging technology
- Maintains normal operation even in network or serial link downtime
- High Security Fingerprint Verification & ID



Biometrics - changing the face of employee data capture

Biometrics deliver a high degree of certainty about who a particular individual is. As fingers travel with you, there is also added convenience over a password or swipe card which can be lost, or even exploited by sharing (sometimes called buddy clocking). From an HR and Operations perspective, passwords and ID cards can be quite costly for an organization to administer, particularly in industries where a large casual workforce is employed.

Looking beneath the surface of the skin

Mitrefinch utilizes multi-spectral imaging technology, which sidesteps common issues experienced with a conventional biometric system by gathering fingerprint information from **beneath the surface of the skin**. In simple terms, this means that the collection of employee data is not hampered by common skin surface or environmental conditions such as dirt, dust, chemicals, moisture, or cold refrigerated or damp areas. The power of multi-spectral imaging technology is further demonstrated by its capability to capture a fingerprint image through a medical glove, making this type of sensor particularly appealing to the healthcare industry. The terminal also only captures a digital representation of the fingerprint, delivering an extra layer of security.

Mitrefinch Biometric Clocking Terminals

The **MF8/960 Mitrefinch Terminal** is a multi-spectral biometric imaging Clocking Terminal that provides high-security fingerprint recognition for fool-proof employee identification. It can be used with **Mitrefinch Time and Attendance (TMS), Access Control, Labour Costing** and **Fire Evacuation (FES)** applications. The Clocking Terminal also offers additional functions such as checking employee vacation balances and viewing previous clockings. The Clock communicates all clocking data to a central database via Ethernet or RS485, and has internal memory which enables the terminal to function normally even if the connection is lost¹.



¹ Updates will not be received and clockings will not be sent back to the central database until the link is restored

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Technical Specifications

Power Input

Voltage	90 ~ 264 V AC
Frequency	47 ~ 63 Hz
Current	0.6 A max @ 230 VA C
Relay Output Current	1.5 A max @ 12 VDC

Inputs

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

Outputs

DPST Relay	x1 (Common Selectable Voltage Free, 12V or 0V) X3
SPST Relay	(Common Selectable Voltage Free, 12V or 0V) x1 (12V)
Buzzer Output	DC
Buffered Driven LEDs	x4 (-ve switched)

Communications

100Mb Ethernet Port	x1
RS485 Connection	x1
RS232 Port	x2 (internal only)

Environmental

IP Rating	Designed to IP20
Operating Temperature	0 °C to +55 °C
Storage Temperature	-20°C to +85°C
Humidity	90% RH Non-Condensing

Interfaces

Graphical Display	x1 (Dot-Matrix Monochrome)
Keyboard	X1 (Numeric)
Function Keys	x3

Form Factor

Dimensions	256 x 147 x 51 mm (WxDxH)
Mounting	Wall-mount, Desk-mount

Ordering information

Part Number	10001061
Description	MF960 T&A Multi-Spectral Network
Part Number	10001168
Description	MF860 T&A Multi-Spectral Serial