

TEMALINE

Smarter security for smarter operations

The Tema-Voyager™ Multi controller can manage four doors, with rigorous security and superior performance.

Each controller manages its doors autonomously, and can independently connect to other Tema-Voyager controllers to ensure continued functionality – even when disconnected from the software supervisor within Enterprise Buildings Integrator (EBI).

The Tema-Voyager Multi serves as both a controller and as the connection point and I/O manager for up to four readers. It can also support a plug-in for a “secure access module” or SAM. This lets you use SIM cards for access to further enhance the encryption and security of your access control.

END-TO-END ENCRYPTION

- Communication between the reader and the controller uses a robust OSDP connection (Open Supervised Device Protocol) to prevent data capture.
- Automatic, randomized key distribution also helps prevent cyber attacks.

SMARTER WIEGAND MANAGEMENT

- The Tema-Voyager Multi monitors the electrical current to the Wiegand connection on a reader to sense when a power short or cut occurs.
- If a short or cut is detected, an alarm is sent to the EBI supervisor.
- If the reader is equipped with tamper prevention, this can also be monitored. If a tamper alarm is triggered, the controller alerts the EBI supervisor.

FEATURES AND BENEFITS

- Direct IP connection to the EBI-Temaline software supervisor
- LAN connectivity via: Static IP, DHCP and DNS
- 10/100Mb and 1Gb encrypted LAN (AES)
- Peer-to-peer communication with other Tema-Voyager and Temaline controllers maintains system functionality, even after a failed connection to the EBI supervisor
- Completely autonomous, with on-board database
- Door management remains fully active during database downloads from the EBI supervisor
- Management of up to 250K cards
- No limit to the number of behavior models per card-holder
- Two levels of anti-passback control for greater security
- Threat-level management
- Wall or DIN rail mounting
- Tamper resistant (anti opening)
- 4 inputs, 4 open-collector outputs, and 8 fully configurable I/O ports for versatile door management
- Optional Internal Relay Board
- Optional SAM (Secure Access Module) plug-in board



EMERGENCY READINESS

- The optional Emergency Relay Output Board lets the Tema-Voyager Multi interrupt the power supply to unlock doors if an emergency alarm is triggered (such as a fire alarm).
- An additional dedicated input helps maximize availability by eliminating firmware or software dependency.

SMARTER POWER MANAGEMENT

- “Power over Ethernet” support (PoE and PoE+) lets the Tema-Voyager Multi directly power up to 4 readers.
- Using the optional Relay Output Board, the controller can unlock doors without added power supply.

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TEMALINE VERSATILE CAPABILITIES

The Tema-Voyager Multi includes variations to manage a single-sided door, up to 4 single-sided doors, or 2 double-sided doors. The table below shows the available configurations.

The controller also provides 4 inputs, 4 outputs, and 8 fully configurable I/O ports. The “Multi-0” model is for applications where you do not need to manage a reader – only inputs and outputs.

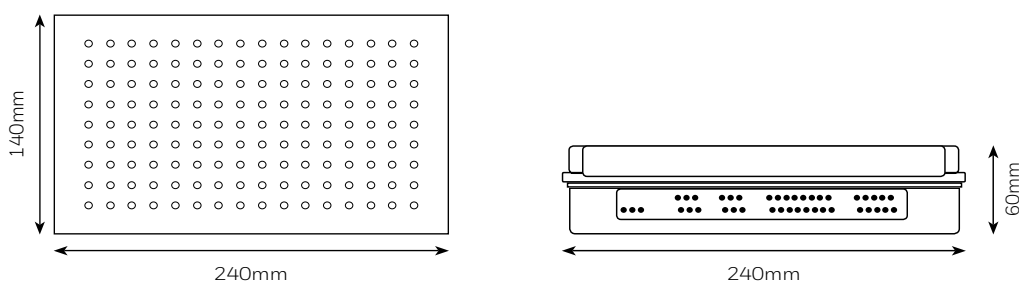
		SINGLE-SIDED DOOR 1 READER + 1 REX	DOUBLE-SIDED DOOR 2 READERS
Device managing only I/O	Tema-Voyager Multi-0	0	0
	Tema-Voyager Multi-1	1	0
Devices managing readers and I/O	Tema-Voyager Multi-2	2	0
	Tema-Voyager Multi-2	0	1
	Tema-Voyager Multi-3	3	0
	Tema-Voyager Multi-3	1	1
	Tema-Voyager Multi-4	4	0
	Tema-Voyager Multi-4	3	0
	Tema-Voyager Multi-4	2	1
	Tema-Voyager Multi-4	0	2

PART OF THE OVERALL EBI-TEMALINE ARCHITECTURE

Tema-Voyager Multi integrates with Honeywell’s Enterprise Buildings Integrator (EBI) to provide robust, versatile security. Compatibility and peer-to-peer communication with Tema-Voyager Compact and other Temaline controllers (TS_AC01 and TS2) enhances your ability to manage complex access control applications in both existing and new solutions.

- Access Control: Multi, TS2, TS_AC01, Compact
- Time and Attendance: Compact, Multi, TS2, TS_AC01
- Muster: Compact, TS2, TS_AC01
- Intrusion: Tema-SEC, Tema-ID
- Light Intrusion: Multi, Compact, TS_AC01, TS2
- Lift security: TS_AC01, TS2

DIMENSION DIAGRAM



TEMALINE TECHNICAL DETAILS

TECHNICAL SPECIFICATION

Microprocessor	Freescale i.MX 6 Solo 800 Mhz
Memory	RAM: 512Mbytes FLASH: Nor 128Mbytes
Real Time clock	Retention time: 120 hours (super capacitor)
Security screw	4 Torx screws
Construction	Anti-Opening mechanical Tamper, Plastic housing
Mounting specification	Wall or DIN rail mounting

CONNECTIVITY

LAN connection via	10/100Mb and 1Gb POE, or POE+ Encrypted LAN (AES) Static IP DHCP (Dynamic Host Configuration protocol), DNS (Domain Name System)
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ELECTRICAL SPECIFICATION

Supply voltage	10-30VDC POE IEEE 802.3af-2003 POE+ IEEE 802.3at-2009 External power supply available separately
Power consumption	4,8W Board only 10-30VDC: max load 36W POE : max load 15.4W POE+ : max load 25.5W
Current available for Readers and Locks (supported only with optional Relay and Emergency Relay Output Boards)	10-30VDC: max 1500mA @ 12Vcc POE : max 750mA @ 12Vcc POE+ : max 1500mA @ 12Vcc WARNING: please check the limits using the Tema-Voyager Multi Consumption Verifier Tool

INTERFACE

LAN	10/100Mb, 1Gb encrypted LAN connection (Cable Cat 5/6)
RS485/Wiegand	4 point-to-point lines, freely configurable as RS485 with OSDP protocol or Wiegand Distance dependent from Reader characteristics
Inputs	4 Supervised or Digital. Supervised inputs with four statuses: Normal, Alarm, Cut, and Short Digital inputs with two statuses: Open, Close Current: 0~10mA for each input Voltage: +14V maximum; 0V minimum
Outputs	4 From the main Board: Power Open Drain (Mosfet) 12V-50mA From the optional Relay Output board: dry contact NO/NC 24V-3A
Inputs/Outputs	8 configurable (Refer to above input/output characteristics)

MECHANICAL

Dimensions (W x H x D)	240mm x 140mm x 60mm / 9,45inch x 5,51inch x 2,36inch
Weight	550g / 1,21pound

ENVIRONMENTAL

Operating temperature	-10°C to +55°C / +14°F to +131°F
Storage temperature range	-25°C to +70°C / -13°F to +158°F
Storage humidity	95% without condensation
IP Rating	IP32

TEMALINE TECHNICAL DETAILS

REGULATORY

Certifications	CE CFR 47 FCC Part 15 subpart B, 2014 EN50581:2012 EN 50133-1:1996/A1:2002 EN 50133-2-1:2000 EN 50133-7:1999 EN-55024:2010 EN 55022:2010 Class B EN 50130-4:2011 EN-50130-5:2011 (Environments - Access control) EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 cULus UL 294-S319 CTick IEC 60839-11-1:2013 (pending)
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ORDER CODES

Model	Description
VMC-00WENN1	Tema-Voyager Multi-0, I/O management only, no Wiegand/RS485 connections
VMC-01WENN2	Tema-Voyager Multi-1, manages up to 1 single-sided door Ready to receive SAM Plug-In
VMC-02WENN2	Tema-Voyager Multi-2, manages up to 2 single-sided doors Ready to receive SAM Plug-In
VMC-03WENN2	Tema-Voyager Multi-3, manages up to 3 single-sided doors Ready to receive SAM Plug-In
VMC-04WENN2	Tema-Voyager Multi-4, manages up to 4 single-sided doors Ready to receive SAM Plug-In

ORDER CODES: ACCESSORIES

Model	Description
VMA-06	Tema-Voyager Multi Relay Output board: provides 4 Relay Output, dry contact NO/NC 24V-3A. Up to 3 can be added to a Multi device. (*)
VMA-07	Tema-Voyager Multi Emergency Relay Output board, provides: <ul style="list-style-type: none"> • 4 Relay Output, dry contact NO/NC 24V-3A; • 1 Input, dry contact, for emergency alarm, with separate power supply. Up to 1 can be added to a Multi device. (*)
VMA-08	Tema-Voyager Multi SAM Plug-in board (**)

* A Tema-Voyager Multi controller can embed up to max 3 Output boards in total. So it supports up to 1 Emergency Relay Output board plus 2 Relay Output boards.

** VMA-08 requires Product Manager approval.

ORDER CODES: SPAREPARTS

Model	Description
VMS-KIT	Resistors and diodes kit
VMS-RUB	Seal rubber kit, 5 upper, 5 lower

Honeywell reserves the right, without notification, to make changes in product design or specifications.

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Integration with SAP Applications

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 FUTURE
 IS
 WHAT
 WE
 MAKE IT**

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