

Tema-Voyager™ Multi

The new controller for higher security

The Tema-Voyager Multi is a new controller within the Temaline family that offers the management of a limited number of doors together with high security.

The Tema-Voyager Multi offers in a single device both a controller as well as the readers connection and the I/O management. The reader connections can be Wiegand or RS485 via OSDP protocol when secure communication with the reader is required. Directly IP connected, it supports both POE and POE+ offering also the ability to directly manage the door unlock. Telecommunication companies, airports, banks, shop premises are good examples of where this device is used to its best advantages.



THE ADVANCED FEATURES

Advanced Wiegand management

- The Tema-Voyager Multi checks the current absorbed by the Wiegand connection to identify if there is a short or a cut
- If a short or a cut is identified the Tema-Voyager Multi sends an alarm to the supervisory centre
- In case the reader connected on the Wiegand is equipped with a tamper, the same can be monitored and an alarm sent to supervisory level when a tamper alarm is raised

Maximum benefits from POE and POE+

- The connection to POE and POE+ allows the Tema-Voyager Multi to directly supply up to 4 readers
- The Tema-Voyager Multi allows full management to unlock the doors without any additional power supply but simply using the optional Relay Output Board. The number of locks managed depends on the power required

Advanced in Emergency management

- The optional Emergency Relay Output Board allows the Tema-Voyager Multi to interrupt the power supply to doors in case an emergency alarm is raised (typically fire alarm)
- An additional dedicated input is provided without any Firmware/Software dependency to ensure maximum availability

KEY FEATURES

- Directly connected to EBI-Temaline supervisory level
- Peer-to-Peer communication with other Tema-Voyager Compact and Temaline controllers ensures complete autonomy even in case of failure at the supervisory level
- 10/100Mb and 1Gb encrypted LAN (AES, 3DES)
- LAN connectivity via: Static IP, DHCP and DNS
- No limitation in number of Behaviour Models per cardholder
- Double level anti pass back
- Threat level management
- Completely autonomous, DB onboard
- Door management during the database download from the supervisory center
- Management of up to 250K cards
- Simplified connection via POE & POE+ with possibility to manage the unlock of the doors using the optional Relay output board
- Embedded 4 Input and 4 Open Collector Outputs plus 8 fully configurable I/O for door management
- Optional Internal Relay Board
- Wall or DIN rail mounting
- Tamper resistant (anti opening)

FLEXIBLE FUNCTIONALITIES

The Tema-Voyager Multi is available in different variations to manage a single side door, up to 4 single side doors or 2 double side doors, in all the possible configurations detailed below.

The device also embeds 4 Inputs and 4 Outputs and 8 additional fully configurable I/O, up to you to decide if you need them to work as Inputs or as Outputs. In addition is also available the model to only manage I/O.

	SINGLE SIDE DOOR 1 READER + 1 REX	DOUBLE SIDE DOOR 2 READERS	INPUTS	OUTPUTS	CONFIGURABLE INPUT/OUTPUT
Tema-Voyager Multi-0	0	0	4	4	8
Tema-Voyager Multi-1	1	0	4	4	8
Tema-Voyager Multi-2	2	0	4	4	8
Tema-Voyager Multi-2	0	1	4	4	8
Tema-Voyager Multi-3	3	0	4	4	8
Tema-Voyager Multi-3	1	1	4	4	8
Tema-Voyager Multi-4	4	0	4	4	8
Tema-Voyager Multi-4	3	0	4	4	8
Tema-Voyager Multi-4	2	1	4	4	8
Tema-Voyager Multi-4	0	2	4	4	8

TEMALINE ARCHITECTURE

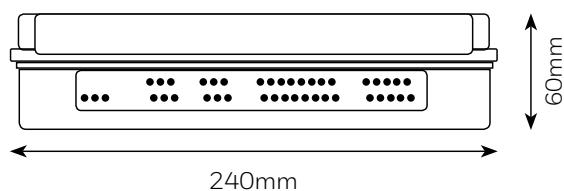
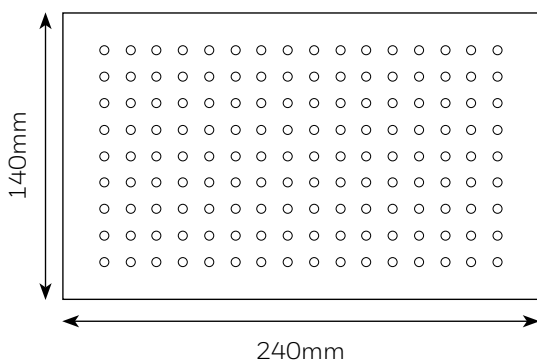
As part of the overall Temaline solution, Tema-Voyager Multi is compatible with Honeywell's Enterprise Buildings Integrator™ (EBI).

Compatibility and peer to peer communication with the Tema-Voyager Compact and other Temaline devices (TS_AC01 and TS2) offers a security solution capable of managing:

- 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



TECHNICAL SPECIFICATION	
Microprocessor	Freescale i.MX 6 solo 800 Mhz
Memory	RAM: 512Mbytes FLASH: Nor 128Mbytes
Real Time clock	Retention time: 48 hours (big 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, 3DES) Static IP DHCP (Dynamic Host Configuration protocol), DNS (Domain Name System)
ELECTRICAL SPECIFICATION	
Supply voltage	10-30VDC POE IEEE 802.3af-2003 POE+ IEEE 802.3at-2009 External power supply available separately
Power consumption	4.8 W Board only 10-30VDC: max load 36 W 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 2100mA @ 12Vcc POE : max 750mA @ 12Vcc POE+ : max 1500mA @ 12Vcc WARNING: please check the limits with the Tema-Voyager Multi Consumption Verifier Tool
INTERFACE	
LAN	10/100Mb, 1Gb encrypted LAN connection (Cable Cat 5/6)
Wiegand	4 lines, alternative to the 4 RS485 lines Distance dependent from Reader characteristics.
RS485	4 point-to-point lines (OSDP protocol), alternative to the 4 Wiegand lines Distance dependent from Reader characteristics
Inputs	4 fixed: 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 fixed 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 (characteristics as those fixed)
MECHANICAL	
Dimensions (W x H x D)	240mm x 140mm x 60mm
Weight	550g
ENVIRONMENTAL	
Operating temperature	-10°C to +55°C
Storage temperature range	-25°C to +70°C
Storage humidity	95% without condensation
IP Rating	IP32
REGULATORY	
Certifications	CE CTick CFR 47 FCC Part 15 subpart B, 2014 UL 294-S319 (pending) cUL pending 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
Environmental	EMG/GPS-compliant – directives 2011/65/EU 2002/96/EC

ORDER CODES

Model:	Description:
VMC-00WENN1	Tema-Voyager Multi-0, I/O management only, no wiegand/RS485 connections
VMC-01WENN1	Tema-Voyager Multi-1, manages up to 1 single side door
VMC-02WENN1	Tema-Voyager Multi-2, manages up to 2 single side door
VMC-03WENN1	Tema-Voyager Multi-3, manages up to 3 single side door
VMC-04WENN1	Tema-Voyager Multi-4, manages up to 4 single side door

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. (*)

* 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.

ORDER CODES: SPAREPARTS

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

Find out more:

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