**Overview**

The LNL-1340-M2K is part of the Lenel M Series and is the one-for-one, plug-compatible, OnGuard®-ready replacement for the legacy CASI M2000 reader/IO board.

The LNL-1340-M2K is the reader/IO board and is paired with an LNL-3300-M5 CPU board, for head-of-line configuration. The LNL-1340-M2K supports the same readers as the M2000, with F2F or supervised F2F protocol, and has the same wiring configurations. Like the legacy M2000, the LNL-1340-M2K can support native supervised F2F readers or readers with Wiegand outputs that interface through WIU devices prior to termination at the LNL-1340-M2K. The LNL-1340-M2K also supports 10 general-purpose inputs, and has eight Form-C relay outputs.

All boards in the Lenel M Series have been designed to facilitate the migration of legacy software such as Picture Perfect®, Facility Commander® Wnx or Secure Perfect Systems to Lenel’s OnGuard access control system. The hardware migration is a straightforward process of powering down the legacy controller, unplugging field wiring from legacy boards, removing legacy boards, installing new Lenel M Series boards, plugging in field wiring, and powering up the new controller which communicates to the OnGuard System.

When converting the M2000 controller to Lenel M Series, both the CPU and the M2000 I/O must be converted to the Lenel M Series.

**Features & Functionality**

- Support for the same readers as the legacy CASI M2000 controllers with F2F or supervised F2F protocol and field wiring compatibility
- Support for native supervised F2F readers or readers with Wiegand outputs that interface through WIU device prior to termination at the LNL-1340-M2K
- Can be used downstream of another M series controller without an additional LNL-3300-M2K
- 10 general-purpose inputs
- 8 Form-C relay outputs
- Elevator control, single cab

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### Specifications

#### Power Supply
- **Primary Power**: 18 VAC, ± 15%, 2.8 A
- **12 VDC Output**: 10.8 to 13.2 VDC, 550 mA max.
- **UPS Battery (Optional)**: 12 volt, 7 Ah rechargeable sealed lead-acid, 1 each supported

#### Outputs
- **Relay Outputs**: 8 outputs, Form-C, 2 A @ 30 VAC/DC, resistive

#### Inputs
- **Inputs**: 10 unsupervised/supervised, standard EOL: 1K/1K ohm, 1%, ¼ watt

#### Reader Interface
- **Reader Power**: 10.8 to 13.2 VDC regulated, 300 mA maximum each reader port
- **Door Output w/External Relay**: Open collector, 40 mA sink maximum
- **Reader Data Inputs**: Supervised F2F, or F2F

#### Cable Requirements
- **Alarm Inputs**: 1 twisted pair per input, 22 AWG shielded. 30 ohms maximum loop resistance
- **Outputs**: As required for the load
- **Reader Data**: Supports legacy wiring. Shielded cables recommended.

#### 12 VDC
- **20 AWG, 500 feet maximum, reader powered by M5-2K board**
- **18 AWG, 3000 feet maximum, reader powered locally**

#### Note 1:
The above specifications are based on the typical 12 volt reader drawing 125 mA. Reader power requirements vary between different models.

#### Note 2:
Excessive voltage drop on long cable runs may require a larger cable gauge or powering the reader from a local power source. Refer to the power specification for the reader being installed.

#### Mechanical
- **Dimension without LNL-3300-M5**: W 8.375 in. (212.7 mm), L 11.375 in. (289.1 mm), H 1.04 in. (26.5 mm) without LNL-3300-M5
- **Dimension with LNL-3300-M5**: H 1.27 in. (32.26 mm)
- **Weight (w/o Connectors)**: 12.0 oz. (340.2 g) nominal without LNL-3300-M5, 17.3 oz. (491.0 g) nominal with LNL-3300-M5

#### Environment
- **Storage Temperature**: -67° to +185° F (-55° to +85° C)
- **Operating Temperature**: 32° to 122° F (0° to +50° C)
- **Humidity**: 5 to 95% Relative humidity, non-condensing (RHNC)

### Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>LNL-1340-M2K</td>
<td>Four door supervised F2F interface board</td>
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<tr>
<td>521330001</td>
<td>M2000 assembly hardware kit for 10 M2000, screws and standoff/nuts</td>
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