

# Guardian Keypad

## TECHNICAL SPECIFICATIONS

- **Exterior hood dimensions - aluminum**

9" wide x 8" tall x 4" deep

- **Exterior hood dimensions- polycarbonate**

10.5 " wide x 10" tall x 3.5" deep

- **Magnetic card reader dimensions - aluminum**

4.75" wide x 2" tall x 2" deep

- **Magnetic card reader dimensions - polycarbonate**

Integrated into house.

- **Magnetic card reader head lifetime**

300,000 card swipes

- **Communication protocol**

9600 BPS over RS485

- **Operational temperature range**

-17C to 120C

- **Operational voltage**

12Vdc

- **Maximum current draw**

1000mA with display @ 12Vdc

- **5AMP main power resettable overload fuse**

Resettable – maintenance free

- **Grounding Requirements**

#12 or thicker solid copper wire between the Earth Ground of the Surge Board and a driven ½" or thicker copper grounding rod.

- **Terminal Block Style**

Removable

- **Identification Method**

Addressable DIP switches

- **Main Relay**

NO: 15A/120VAC, 12A/28VDC

NC: 12A/120VAC, 12A/28VDC

- **Firmware Updates**

Remotely or via a serial update module

## RECOMMENDED CABLING

**Topology** – Guardian keypads can be run in any topology, including daisy chained, home run or star

**Data cable:** Up to 2500' - 18 gauge, 2 conductor, stranded wire with overall shielding

**Power cable:** 18 gauge, 2 conductor, stranded wire. Runs should be less than 150' from the power source

**Relay:** 18 gauge, 2 conductor, stranded wire.

**Bypass switch (optional):** 18 gauge, 2 conductor, stranded wire.

**Pinhole Camera Data:** RG-59 coax cable for data up to 750'. RG-6 for longer runs.

**Pinhole Camera Power:** 18 gauge, 2 conductor, stranded wire. Runs should be less than 150' from the power source.

Do not combine power for the keypad and camera. These should always be run from separate power supplies or channels on a power panel.

**Please see the Guardian Access Control System manual for complete installation instructions.**

