





# **Multi-Technology Readers**

Single Reader Solution for Multiple Technologies including ioProx

## **Features That Make a Difference:**

- Reads more than 12 different types of proximity cards and contactless smart cards including ioProx with Kantech XSF format<sup>1</sup>
- Uses encryption and custom keys for secure transmission of card data
- Download new functionality or enhancements for a future-proof solution
- Optional keypad for two-factor verification
- Mount on metal with isolation spacer
- Indoor/outdoor use
- Built-in tamper switch provides secure installation
- Plug-in screw terminals reduce installation time
- Configurable Wiegand output
- ISO compliant
- Lifetime warranty

Kantech<sup>™</sup> Multi-Technology Readers are one of the industry's most versatile card readers with their ability to read serial numbers from multiple 13.56 MHz smart card technologies, MIFARE<sup>®</sup> encrypted sectors, and most of the common 125 KHz proximity cards including ioProx with Kantech XSF format – all with one reader. This cost-effective solution enables you to transition from proximity to smart cards over time or to utilize both smart cards and proximity cards concurrently in your facility.

Kantech Multi-Technology Readers are configurable to read encrypted MIFARE® sectors using standard or custom MIFARE read keys. These readers also feature a keypad model which outputs keypad commands and a PIN in 8-bit burst Wiegand data.

Important features such as a built-in tamper switch, two-piece connectors, and isolation spacers help reduce installation time. Coupled with robust environmental ratings and a lifetime warranty, Kantech Multi-Technology Readers are the clear choice for companies looking for a powerful, cost-effective way to use various card technologies.



#### **Physical**

**Dimensions** 

Model P345MTR .....111 x 84 x 28 mm

(4.37 x 3.31 x 1.10 in), single-gang

Model P345KPMTR ......111 x 84 x 28 mm

(4.37 x 3.31 x 1.10 in), single-gang with

keypad

Minimum Wiring ......Five conductors including one LED

control line

Cable Recommendations......22 AWG [60 m (200 ft) max] or 18 AWG

[150 m (500 ft) max], stranded

Wiring Terminations ......Plug-in screw terminals

Color .....Black

Accessories.....European surface mount kit Isolation

#### **Environmental**

Environment......UL listed for interior or exterior Operating Temperature......35° to 67°C (-31° to 151°F)

Humidity Range .....0 to 100% Index of Protection .....IP65

#### **Electrical**

Power Supply......9.4 to 16 VDC 125 mA max @ 12 VDC

## Regulatory

Agency Certifications ......FCC Part 15, CE, UL 294 full outdoor

Compliance .....ISO 14443A

ISO 14443B ISO 15693

Operational

Read Range......Up to 102 mm (4 in) depending on

technology of card

Read Time ......Technology dependent (typically <

300 msec)

## **Wiring Connector Pinouts**

| Pin | Description                        |
|-----|------------------------------------|
| 1   | Beeper                             |
| 2   | Ground                             |
| 3   | Power (9.4 to 16 VDC)              |
| 4   | D1 Wiegand                         |
| 5   | D0 Wiegand                         |
| 6   | Reserved for future use            |
| 7   | External green LED control         |
| 8   | External red LED control           |
| 9   | A – RS485 – used for flash upgrade |
| 10  | B - RS485 - used for flash upgrade |
| 11  | Tamper (normally closed)           |
| 12  | Tamper (normally closed)           |

## **Programming and Format Information**

## **Card Technologies Supported**

ioProx Kantech XSF

HID with Kantech Secured Format (KSF)

HID proximity

CASI<sup>®</sup> ProxLite<sup>®</sup>

Deister proximity

ISO 14443A serial number

MIFARE® serial number

**DESFire** serial number

ISO 14443B serial number

ISO 15693 serial number

iCLASS® serial number

MIFARE sectors

#### **Controller Communications**

Wiegand

#### **Configurable Using Program Card**

Pass-through

Fixed length<sup>3</sup> (26-bit, 32-bit, 35-bit, 37-bit, 64-bit)

CASI ProxLite 44-bit pass-through

MIFARE sectors

Select a sector (0-15)

Customize encryption keys

Specify data format (number of bits output)

Enable PIN-on-smart-card functionality

# **Ordering Information**

P345MTR ......Multi-Technology reader with ioProx support,

smart card & proximity, up to 10.2 cm (4 in) read range depending on technology of card,

single-gang, black

P345KPMTR......Multi-Technology reader with ioProx support, integrated keypad, smart card & proximity,

up to 10.2 cm (4 in) read range depending on technology of card, single-gang, black

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies

<sup>(2)</sup> Pass-through – the default setting for Kantech Multi-Technology Readers that allows the reader to send all the data on the card. (3) Fixed length – the reader can be configured to output a fixed length by padding or truncating data on the card.