



User manual

For

uTrust TS SCRAMBLEPAD Version 1.0

Confidential

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Document History

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1.0	20-February-15	Initial version	Suresh Kumar T

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1.0 Introduction

This document details the Physical Access Control Reader **uTrust TS Scramblepad** and its basic user instruction and installation procedures.

2.0 Reader

2.1 Functionality

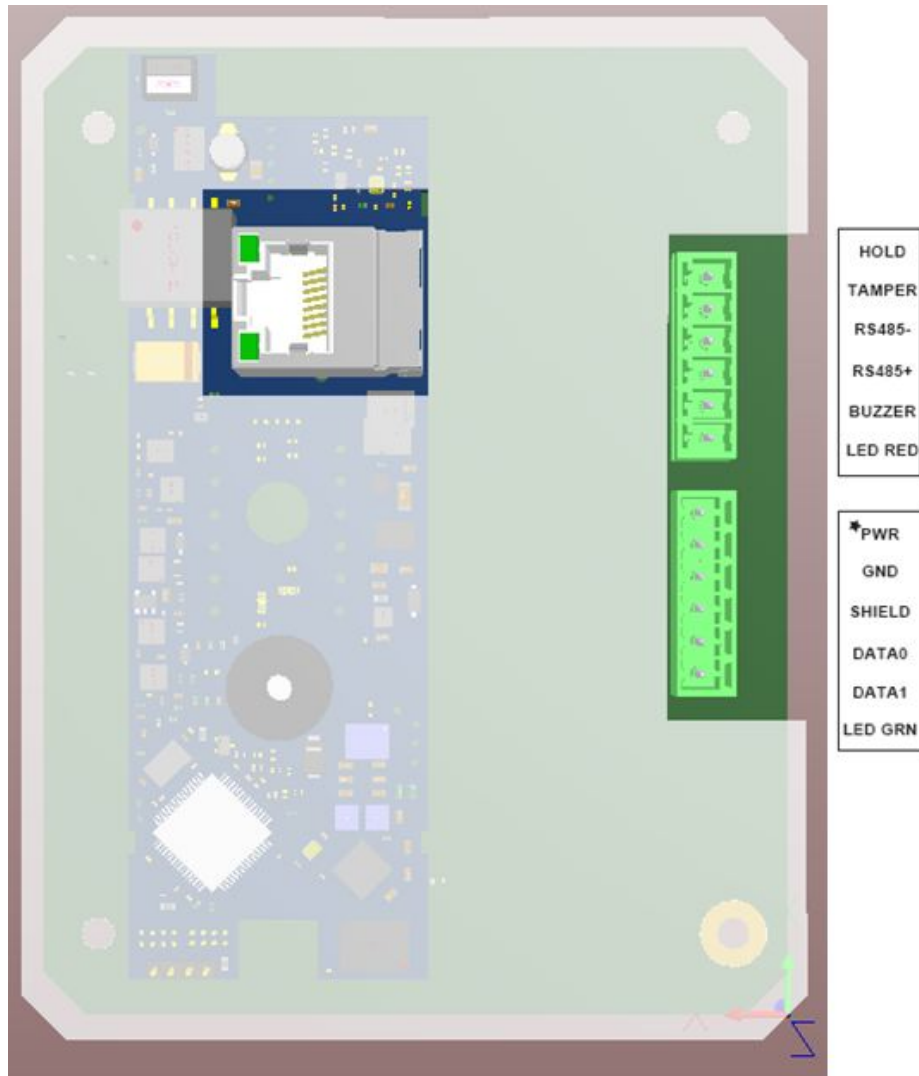
TS Scramblepad reader is a physical access control smart card reader that can read HF and LF contactless credentials, conforming to the following standards: ISO 14443 A & B, ISO15693 with a Randomly displayed keypad pin entry for additional security. The reader can interface with an access control system equipped with a Wiegand or RS485 serial interface

2.2 Front/Top Casing



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2.3 Back plate/View



3.0 Product details

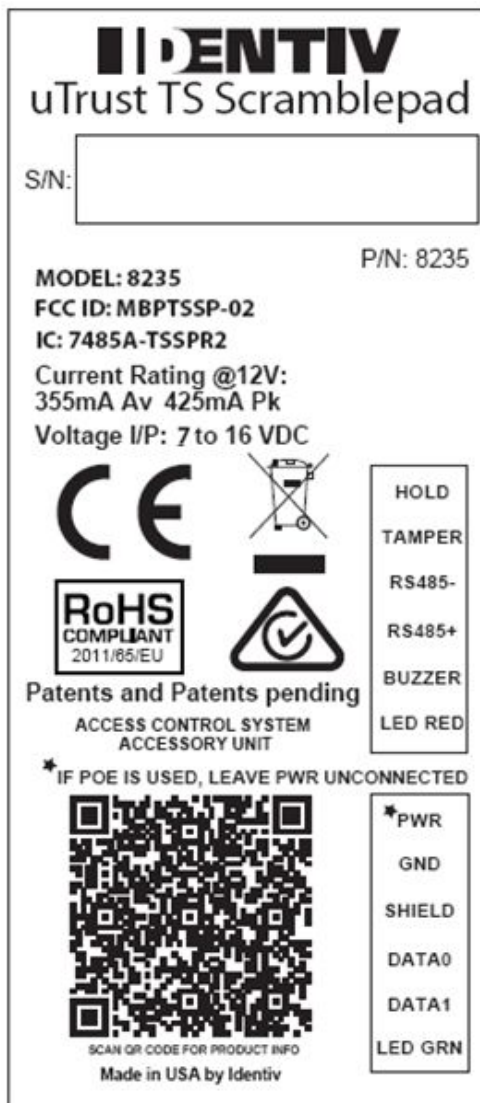
Model Name	: uTrust TS Scramblepad
Device Type	: RFID reader, 13.56MHz (HF) / 125 KHz (LF), keypad Physical Access control Reader (accessory equipment)
Type of equipment	: Suitable for Indoor / Controlled Outdoor use
Interface Type	: Phoenix connectors and RJ45
Voltage Rating	: 7-16V DC (or) 48V DC on RJ45 Connector
Current Rating @12V	: Peak Current – 425 mA, Average Current 355 mA
Communication protocol	: Wiegand, RS485 (2wire - Half Duplex), 10BaseT ETH

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4.0 Specifications

Model	Op Voltage	Current @ 12V	Op temp	Cable Length
8235 uTrust TS SCRAMBLEPAD	7-16 VDC or POE@ 48VDC	Av -355 mA Pk -425 mA	(-20 to 60 Deg C)	RS485 - 4000ft Wiegand -500ft (22AWG) 300ft (24AWG)

5.0 Label



Caution:

During Wiring make sure that the +VDC lines does not make contact with any other cables, as it might affect reader functionality/ cause damage to the reader.

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6.0 Power up and Testing

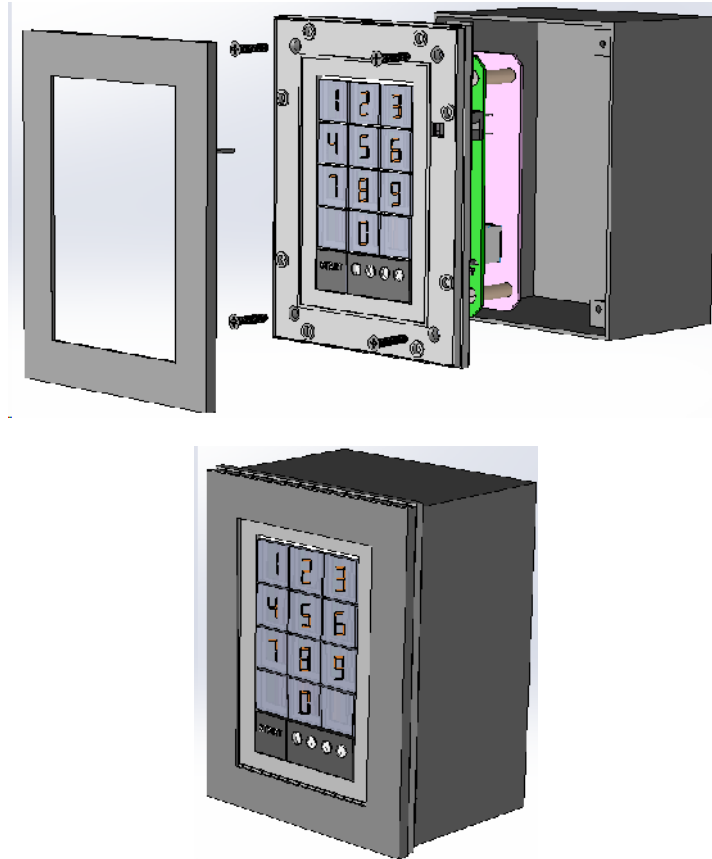
- 1 **Turn power on**
The LED blinks 3 times green with a long beep, then turns red
- 2 **Present a card**
The LED blinks green, and a short Beep is emitted
- 3 **Press Start Key**
Scrambling display with buzzer tone & displays scrambled key
- 4 **RJ45 Ethernet cable**
Reader can be powered from POE. Communication happens through Ethernet also.
- 5 **Wiegand / RS485**
Communication to the Panel is done through Wiegand / RS485 / OSDP.

This is the default reader behavior.

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7.0 Installation

- Install the respective mounting box in to the wall
- Take the cable from the backside of the reader as per the pin outs in the label drawing
- Fix the four screws at the corner into the mounting box
- Fix the bezel on the top of the casing



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8.0 Certifications

8.1 FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information to user

Changes or modifications not expressly approved by **Identiv** could void the user's authority to operate the equipment.

8.2 IC

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.