Installation and User Manual for uTrust SCRAMBLEPAD TS Reader

Version 1.2

DS47L

Confidential

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Document History

Version	Date	Description of Change	Author
1.0	25-March-15	Initial version	Suresh Kumar T
1.1	26-Oct-15	Document updated after inputs from UL	Sudhan Immanuel G
1.2	27-Nov-15	Document updated after inputs from UL	Sudhan Immanuel G

uTrust Scramblepad TS

Contents

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1.0 Introduction

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

2.0 Reader

2.1 Functionality

uTrust Scramblepad TS 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 RS-Hirsch serial interface. Only Listed Identiv control units are compatible for use with the DS47L-SSP-TS.

2.2 Front/Top Casing

uTrust Scramblepad TS

2.3 Rear view with back plate

3.0 Product details

Product Name	: uTrust Scramblepad TS
Model Name	: DS47L-SSP-TS
Device Type	: RFID reader, 13.56MHz (HF) / 125 KHz (LF), keypad Physical Access control Reader (accessory equipment)
Type of equipment	: Suitable for Indoor use
Interface Type	: Phoenix connectors
Voltage Rating	: 28V DC
Current Rating @28 V	: 240 mA
Communication protocol	: RS-HIRSCH protocol

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4.0   Specifications

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

Model	Op Voltage	Current @ 12V	Op temp	Operating humidity
DS47L-SSP-TS	28 VDC	240 mA	0 to +49 deg C	85 +/-5 % RH

- Class 2 power source with 28VDC to be used to power the reader
- Only listed Identiv control units are compatible for use with the DS47L-SSP-TS

5.0   Power up and Testing

1   **Turn power on**
Beep sound comes.

2   **Present a card**
HF card, LF card
The green LED glows when passed, RED LED when failed with a short Beep

3   **Press Start Key**
Scrambling display with buzzer tone & displays scrambled key

This is the default reader behavior.

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6.0   Label

uTrust Scramblepad TS   **IIDENTIV**

S/N: | PPPPYYWWMNNNNN |

FCC ID: MBPSPTS-01
IC: 7485A-SPTSR1

CE

RoHS
COMPLIANT
2011/65/EU

Model: DS47L-SSP-TS
Rating: DC 28V 240mA Av
Mfg. Date

DIGI*TR

G	Black	Ground
+	Red	DC
A	Green	A Data
B	White	B Data
S	Shield	Shield

SECURITY
(UL) **TYPE S**
BP6555
LISTED

KEYPADS

G	Black	Ground
+	Red	DC
A	Green	A Data
B	White	B Data
S	Shield	Shield

Warning
This Product is protected by U.S. and
foreign copyrights. Unauthorized use
of, or any attempt to decode or copy
the protected property, violates the
law.

P1 RS-232 port for
Enrollment Station

S1 Bank
MATCH
Address
SW1-SW4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Mag	
1 Data	1 W1
2 SNS	2 SNS
3 CLK	3 WD
4 LED	4 LED
5 +5V	5 +5V
6 GND	6 GND

Reader 2
Reader 1
* Standard Wiegand
  uses Parity

SW7
Custom
Standard

SW8
Wiegand *
Mag Stripe

If SW7 = ON (Custom), use
S2 switch bank to configure.

SW5
Dual Address
Single Address

SW6
Insert Reader
Swipe Reader

ON
1 2 3 4 5 6 7 8   S1

ON
1 2 3 4 5 6 7 8   S2
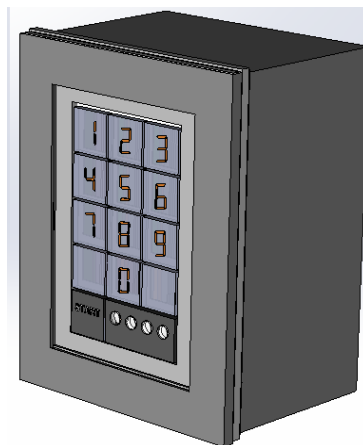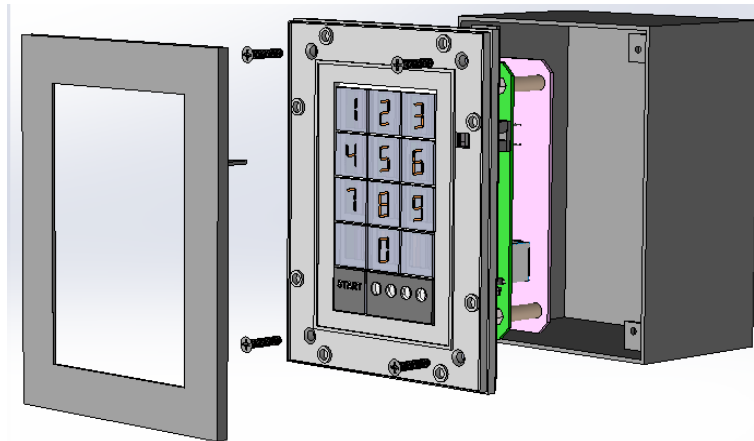
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7.0   Installation

- 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 installed reader

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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.

8.3 UL 294

8.3.1 Access control performance levels

Destructive Attack	: Level IV
Line Security	: Level I
Endurance	: Level I
Standby Power	: Level I