

# uTrust ScramblePad

## Scrambling Keypad Family

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### ScramblePad®

Identiv's uTrust ScramblePad® family of keypads and keypad+reader devices prevent access codes from being stolen by using a key scrambling technique that is combined with unique viewing angle restrictors. An integrated uTrust TS contactless proximity/smart card reader enables a variety of card+code applications. The integrated MATCH™ allows for direct connection of a variety of devices (standard readers, biometrics, etc.). The keypad also gives operators remote system control of DIGI\*TRAC™ Controllers.

### Trusted, Versatile, Secure

The uTrust ScramblePad range is a family of access control devices that provide high security keypad functionality with optional reader technologies, can be combined and configured to meet the most demanding applications. The ScramblePad design is specified in many of the world's most secure locations due to high security scramble feature that randomly orders the digits every time 'START' is pressed. This prevents the acquisition of a user code via pattern recognition, and also prevents keypad wear from leaving a tell-tale as to the numbers used in a valid PIN. This feature is further enhanced by the use of viewing restrictors that narrow the field of vision to the point where only the person directly facing the ScramblePad can see the presented digits.

The use of a memorized credential (PIN - personal identification number) as a single technology access method reduces disruption caused when credentials (e.g. cards) are lost, loaned or left at home, and security is enhanced since the PIN cannot be stolen or copied. The PIN is linked to the specific user so their accountability is ensured.

All ScramblePad devices provide a universal reader interface for analog or pulsed signal readers along with 5VDC power for such devices. The ScramblePad onboard MATCH (the security code used by an Identiv DIGI\*TRAC™ controller) converts the card's payload into a MATCH code — without a need to decipher. This allows existing card access systems to be upgraded and made more secure without replacing existing cards and readers.

Using dual technology (keypad and reader) further enhances security requiring both 'something you know' and 'something you have' to gain access. In many applications off-hours access is controlled with dual technology while during normal operating hours either PIN or card only are used. A DIGI\*TRAC controller and Velocity™ software installation provides an industry leading range of options and custom features, that can be tailored to the requirements of the assets being controlled.

### FEATURES

- **HIGH SECURITY** - Scrambling Display, Unique Horizontal & Vertical Viewing Restrictors, High Security Data, Transmission, 3 to 16 Digit Codes, No need for Facility Codes
- **MULTI-FUNCTION INTERFACE** - Access Control, Programmer's Terminal, Alarm & Relay Control, Override HVAC, Lighting, Custom Control Sequences
- **AUDIBLE FEEDBACK** - On Scramble, On Access/Denial, Silent Operation Option
- **IMMEDIATE AVAILABILITY OF CODES** - No Waiting for Cards, Instant Authorizations/Deauthorization
- **DUAL TECHNOLOGY** - Support 1 or 2 Readers, AutoSTART Scrambling Display
- **DIGITAL TRANSMISSION** - Long Wiring Runs, Multi-Drop Connections, Secure Communication

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### A Multitude of Options

The standard ScramblePad does not include an integrated credential reader. The uTrust TS ScramblePad includes a 125kHz proximity reader and a 13.56MHz contactless smartcard interface (see ordering information for format detail). These powerful combinations provide a myriad of access control configuration options including the use of multiple technologies on a single system (e.g. 26-bit proximity cards and 200-bit PIV compliant smart cards). When dual technology is used, the ScramblePad may be configured to operate card only, code only or card plus code based on time of day or a specific individual or group.

### Remote Control by Extension Digits

The use of “extension digits” allows authorized users to issue dozens of unique command functions. By appending a code to the end of the user PIN an operator can Unlock/Relock doors, Mask/Unmask Alarms, Arm/Disarm Security Systems, Activate After-Hours HVAC or Lighting, Control Mechanical/Electrical systems, Initiate Elevator Floor Requests, and many other custom control sequences. All code transactions are registered in Velocity providing a complete audit trail.

### High Security Communication Path

The ScramblePad uses its own microprocessor intelligence to digitize the code for transmission to a DIGI\*TRAC controller. Digital transmission permits longer wiring runs between ScramblePad and controller than are normally available with conventional technologies. The communication path also allows for multi-drop connections. This enables entrance and exit keypads, as well as dual technology applications, on the same cable.

### Programmer's Terminal

The ScramblePad also functions as a programming terminal for DIGI\*TRAC controllers. This provides a complete, low-cost access control system with no need for a host PC. Programming functions supported include Add/Delete User Access Codes, Assign Unlock/Relock Codes, Assign Mask/Unmask Codes, Add/Delete Relay Control Codes, Add/Delete Time Schedules and Holidays.

### Technical Features

Keypad	
Note: the ScramblePad family of products is designed to operate exclusively with an Identiv controller.	
PIN Code Length	3-16 digits, user defined or randomly generated
Duress Digit	Yes
Code Tamper Alarm	Yes
Display	Default is scrambled on wake. Program mode locks in traditional keypad layout.
7-Segment Display Color/Type	Standard=Red (LED), 'HL'=Orange (LED), 'HI'=White (Incandescent)
Annunciation (Audible)	7-tone 'START' prompt, 1-tone each key press
Annunciation (Visual)	4 LEDs (Green x 2, Amber and Red)
Viewing Restriction	Standard= +/-4 deg horizontal: +/-26 deg vertical. High Intensity= +/-20 deg Horiz.; +/-26 deg Vertical
(Physical) Tamper	Yes. Standard. Optical.
Embedded Readers	
125kHz Support	HID®, Indala®, Casi Rusco®, AWID, Farpointe®, others
13.56MHz Support	uTrust, PIV, PIV-I, CAC, TWIC, MIFARE Classic, DESFire EV1, PLAID [AS 5185-2010], ISO15693 UID, ISO14443A/B UID

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### Technical Features (continued)

Supported External Devices	
Biometric	Yes. See price list for available options.
Mag Stripe	Yes. See price list for available options.
LF/HF Readers	Yes. See price list for available options.
Electrical	
Wiring Type	2 pair, stranded, twisted, overall shield
Wiring Maximum Distance	Refer to DIGI*TRAC controller documentation
Typical Operating Current	215mA DS47L, 250mA DS47L-SSP-TS-HL (Illuminated)
Reader Power	250mA @ 5VDC (2 terminals)
Key Particulars	
Face plate (front)	5.75" x 4.37" x 0.375" (146mm x 111mm x 10mm)
Main Unit (from mounting surface)	4.5" x 3.5" x 1.5"* (114mm x 89mm x 38mm) *DS47L & SPX, SSP is 2" (50mm)
Standard Mounting Height	58" (1.47m) *Refer to local AHJ/Code
ADA Mounting Height	48" (1.2m) *Refer to local AHJ/Code
Operating Temperature Range	0 to 140 deg F (-20 to 60 deg C)
Relative Humidity	0-90% (non-condensing)
Shipping Weight	2-lb (0.90-kg) nominal

### Mounting Accessories Table



Supported External Devices	
MB1	Flush Mounting Box
MB2	Surface Mounting Box
MB2S	Shallow Version of MB2
MB2SL	Sloped Surface Mounting Box (ADA)
MB3	Heavy Duty Flush Mounting Box
MB4	Heavy Duty Surface Mounting Box
MB5	Exterior, Heavy Duty Surface Mounting Box
MB8	Heavy Duty Flush
MB9	Heavy Duty Flush Mounting Box, Slope Front Face Plate (ADA)
MB20	Heavy Duty Combo Surface Mounting Box (ADA)
MB/FFP	Flat Faceplate
MB/SFP	Slope Front Faceplate
MB/SWS	Shallow Wall, Semiflush Spacer Ring
MP35	Mounting Post, 35" (88.9 cm) for curb mounting
MP41	Mounting Post, 41" (104.1 cm) for ground level mounting
UMK	Universal Mounting Kit (requires MB2) (ADA)
SPSH-1	ScramblePad Space Heater Assembly, for use with MB5, where temperatures drop below freezing

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### Ordering Information

Standard Models		
DS47L	ScramblePad	Scrambling display & viewing restriction. Audible annunciator, 4 status LEDs & physical tamper switch. MATCH function for 1 or 2 readers. 2MATCH connectors with 6" pigtailed. Installs in Identiv mounting boxes.
DS47L-HL	ScramblePad - High Intensity 'Orange'	As above but with an energy efficient orange LED high intensity display. For use in high ambient light conditions. Use MB5 to protect from contamination and to shield unit from direct lighting.
DS47L-SSP-TS	ScramblePad TS - Standard	DS47L ScramblePad with embedded uTrust TS 125kHz reader and 13.56MHz contactless smart card reader. 1 MATCH connector with 6" pigtail included. Installs in Identiv mounting boxes (MB2 and deeper).
DS47L-SSP-TS-HL	ScramblePad TS - HE - High Intensity	DS47L ScramblePad with embedded uTrust TS 125kHz reader and 13.56MHz contactless smart card reader with an energy efficient orange LED high intensity display. 1 MATCH connector with 6" pigtail included. Installs in Identiv mounting boxes (MB2 and deeper).

Contact sales for full details of compatible credentials.



Identiv (NASDAQ: INVE) is a global security technology company that establishes trust in the connected world, including premises, information, and everyday items. CIOs, CSOs and product departments rely upon Identiv's trust solutions to reduce risk, achieve compliance, and protect brand identity. Identiv's trust solutions are implemented using standards-driven products and technology, such as digital certificates, strong authentication, mobility, and cloud services.

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