Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Storm

1000 Series
Vandal Resistant Keypads

Robust, attack resistant keypads for use in the most exposed and hostile public environments

- *Rugged, reliable and responsive data entry*

- *Vandal resistant (20J BS EN 60068-2-75: 1997)*

- *Weather, water and dust resistant (IP65)*

- *All metal keytops and casing*

- *4 key, 12 key and 16 key formats*

- *Permanent, high contrast, engraved keytop graphics*

- *Raised "home pip" on the "5" key*

- *Simple 'row and column' circuit matrix, terminated by a male, gold-plated, square pin, 0.1" (2.54mm) pitch connector with locking ramp*

- *Can be fixed to a flat surface or under panel mounted for a flush, low profile installation*
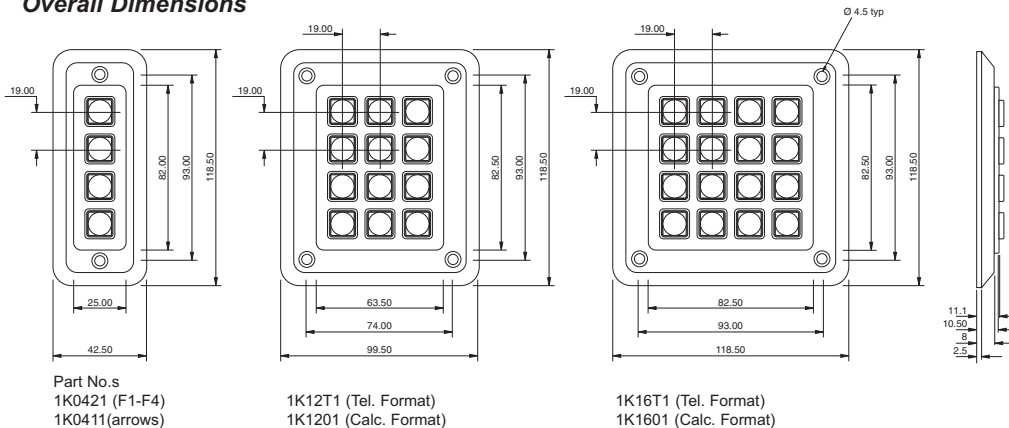
www.storm-interface.com
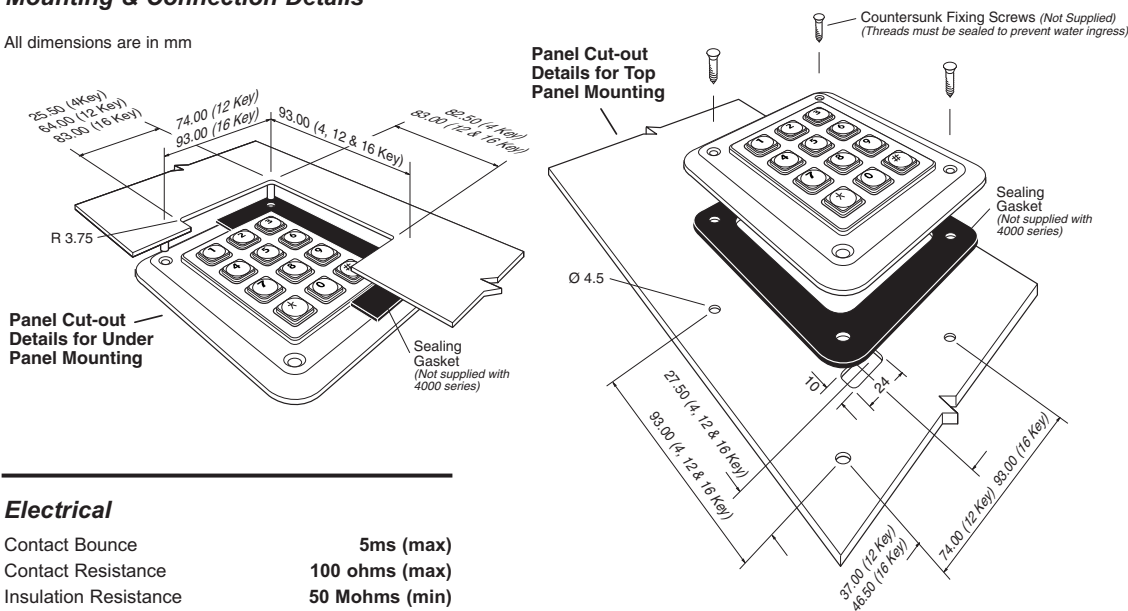
Storm

1000 Series vandal resistant keypads

A series of attack resistant keypads for use in the most hostile public environments.
Designed and constructed to ensure rapid and reliable data entry in the most challenging applications, the Storm 1000 Series keypads are field proven and lab tested to survive hard use, abuse and vandalism. Ideal for use in a wide range of industrial, commercial and public applications.

Overall Dimensions

Part No.s
1K0421 (F1-F4)
1K0411(arrows)

1K12T1 (Tel. Format)
1K1201 (Calc. Format)

1K16T1 (Tel. Format)
1K1601 (Calc. Format)

Mounting & Connection Details

All dimensions are in mm

Panel Cut-out Details for Under Panel Mounting

Panel Cut-out Details for Top Panel Mounting

Countersunk Fixing Screws *(Not Supplied)*
(Threads must be sealed to prevent water ingress)

Sealing Gasket *(Not supplied with 4000 series)*

Sealing Gasket *(Not supplied with 4000 series)*

Connection Details for 4 Key Keypad

CONTACT CONNECTIONS

5 4 3 2 1
(As viewed from rear of keypad)

A 1
B
C
D
KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX	
CONNEC. PIN	ROW/ COLUMN
1	common
2	D
3	C
4	B
5	A

Connection Details for 12 Key Keypad

CONTACT CONNECTIONS

8 7 6 5 4 3 2 1
(As viewed from rear of keypad)

A 1 2 3
B
C
D
KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX	
CONNEC. PIN	ROW/ COLUMN
1	A
2	B
3	1
4	2
5	3
6	-
7	D
8	C

Connection Details for 16 Key Keypad

CONTACT CONNECTIONS

8 7 6 5 4 3 2 1
(As viewed from rear of keypad)

A 1 2 3 4
B
C
D
KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX	
CONNEC. PIN	ROW/ COLUMN
1	A
2	B
3	1
4	2
5	3
6	4
7	D
8	C

Electrical

Contact Bounce	**5ms (max)**
Contact Resistance	**100 ohms (max)**
Insulation Resistance	**50 Mohms (min)**
Breakdown Voltage	**500V AC (max 60 secs.)**
Operating Voltage	**24V DC (max)**
Operating Current	**50mA (max)**

Mechanical

Operational Life	**4 million cycles (min) per key**
Keytop Travel	**1.4mm nominal**
Actuation Force	**180gms nominal**
Connector	**0.1" pitch, gold plated square pin, male connector with locking ramp**

Environmental

Water / Dust Sealed	**IP65 (when mounted to suitable enclosure)**
Operational Temperature	**-40°C to +100°C (Dry)**
Impact	**20 Joules via 50mm Ø steel impactor**

Material

Casing	**Chromed die-cast zinc**
Keytops	**Chromed die-cast zinc**
Keytop Legends	**Engraved**
Contact Circuit	**Gold on Nickel plated FR4**

Accessories

Item	Stock No.	Notes
PC Interface	4200-00[x]	RS232
Rear Casing Providing space for additional components or circuitry (12 key formats only)	RC12020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions.
Blank Keytops set of four	1K0000[x]	Supplied without keytop graphics. Suitable for engraving.
Privacy Shield Provides PIN / Entry Code security	1KFS020[x]	Supplied complete with fixing hardware, sealing gaskets and fixing instructions. 12 key only.

Whilst every effort is made to ensure details are correct at time of print, specifications are subject to change without notice.

CE

BSI REGISTERED

UKAS QUALITY MANAGEMENT 003

FM 39602

www.storm-interface.com