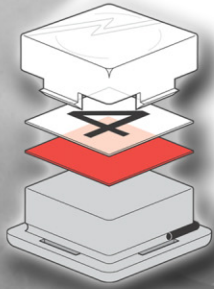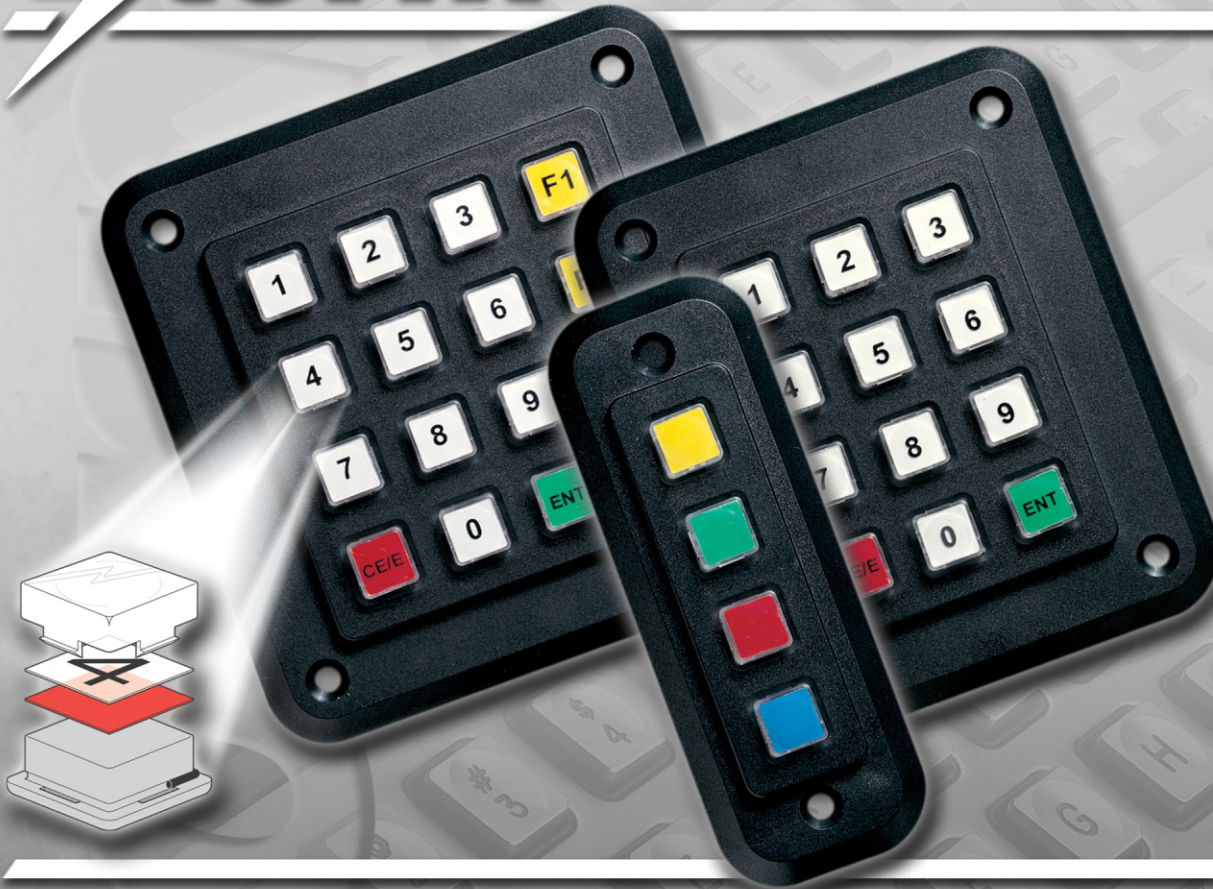# Storm

Graphic Series Keypads

Tough keypads with 'snap-on' keytops for custom graphics

- **Rugged, reliable and responsive data entry**

- **Available with optional integrated LED illumination of keytops and keytop characters**

- **Keytop colours and graphics can be configured to suit almost any application**

- **Sealed against water and dust to IP54 specification**

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

- **Can be fixed to a flat surface or under panel mounted for a flush, low profile installation**

- **Extensive library of keytop graphics and colour tiles available**

- **Custom keytop graphics can be created and fitted 'on-site'**
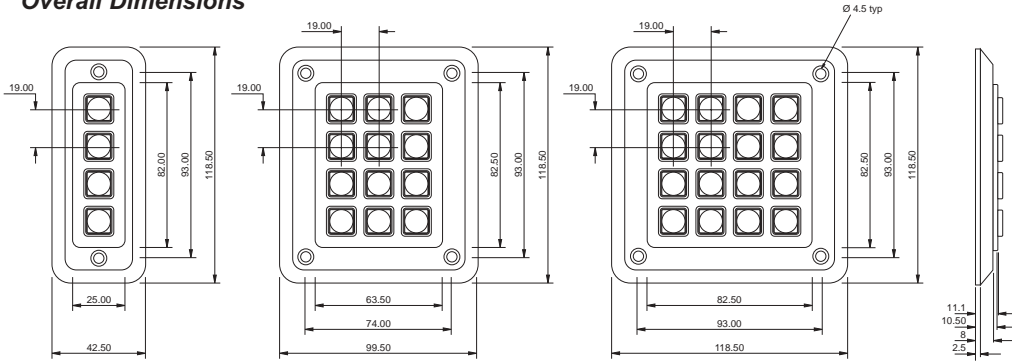
www.storm-interface.com

storm

K Range Graphic Series Keypads

STORM Graphic Series Keypads feature keytop legends that can be configured or customised without dismantling the keypad. The unique 'snap on' keytop cover encapsulates a polymer legend tile. The legend tiles can be selected from an extensive library of standard characters or symbols to suit many applications. Alternatively custom keytop graphics can be created using laser printed acetate film or screen printed polymer film. Keytop colours can be customised by backing the transparent legend film with a second, coloured tile. When pressed into place the impact resistant keytop provides a permanent tamper resistant lens. The keytop cover protects the encapsulated legends from wear, physical damage, water ingress and unauthorised removal. These field proven keypads are ideal for use in a wide range of industrial and commercial applications. Also available with optional integrated LED illumination of keytops and keytop graphics, making these keypads suitable for use in dark or subdued lighting conditions.
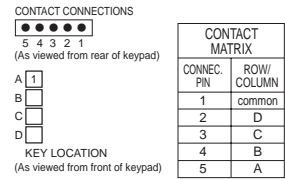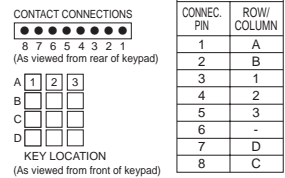
Overall Dimensions

Part No.s
GS04020[x] (Black)   GS12020[x] (Black)   GS16020[x] (Black)   [x] denotes packaging variant
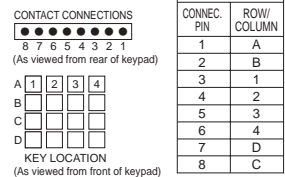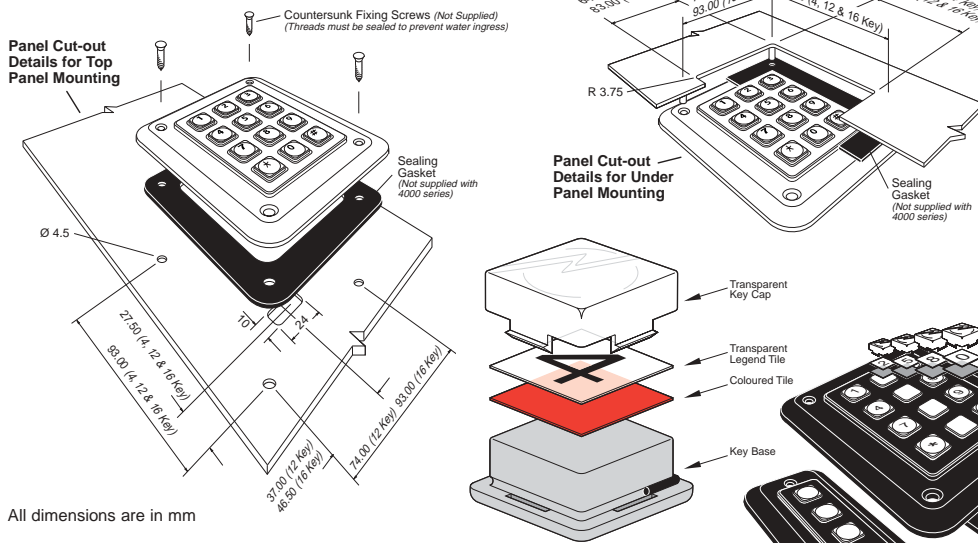
Mounting & Connection Details

All dimensions are in mm

Connection Details for 4 Key Keypad

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

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)

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)

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

Environmental

Water / Dust Sealed	**IP54 (when mounted to suitable enclosure)**
Operational Temperature	**-20°C to +60°C (Dry)**

Material

Casing	**General Service Polymer (black or mid grey)**
Keytops	**General Service Polymer (transparent)**
Contact Circuit	**Gold on Nickel plated FR4**

storm Interface

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For details of available STORM Graphic Series keytop character sets, please request the legend tile character library, document ref. GFX-LEG1-01

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

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GFX-LIT-01 Rev 2
Oct 2004

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