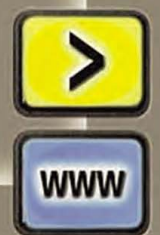# Storm

5000 Series
Integrated Keypads

Integrated keypads with optional display for industrial or public environments

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

- **Optional RS-232 keypad encoder and display driver are available seperatly**

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

- **Available with high impact polymer or chromed metal keys**

- **Hardened stainless steel face plate**

- **Can be supplied with an (optional) 20 character x 4 line illuminated LCD display**

- **Card reader/writer options available seperatly**

- **Easily and securely installed**

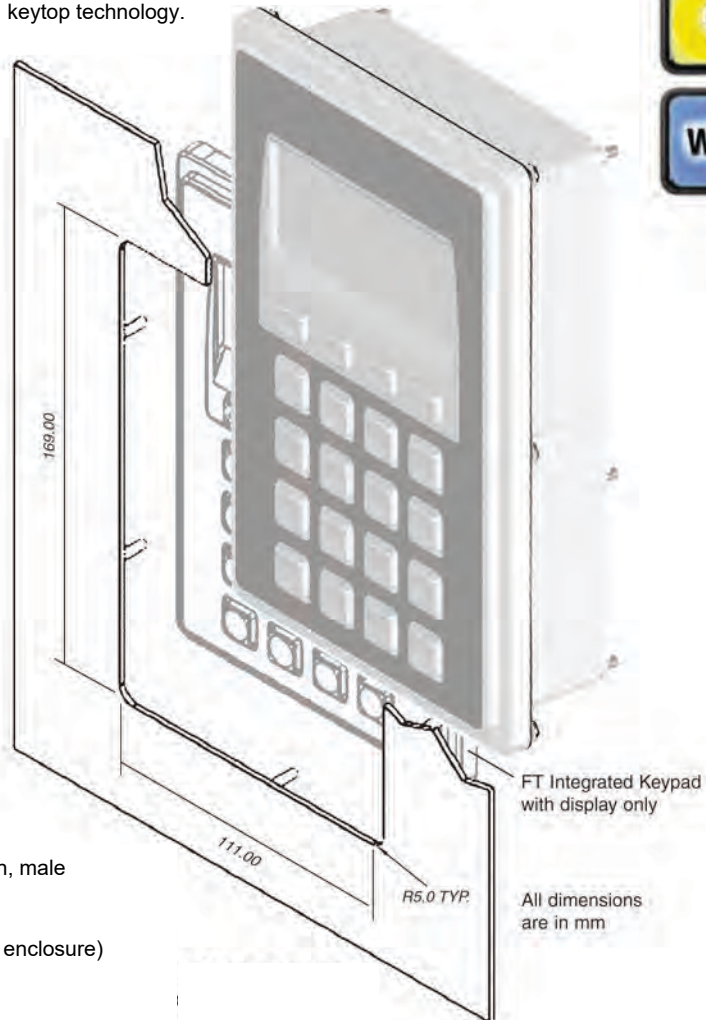- **Weather sealed for outdoor use**

www.storm-interface.com

Storm

5000 Series Integrated Keypads

Developed for use in a wide range of industrial and commercial applications, this integrated keypad and optional display is ideal for use in exposed, hostile or public environments. The display type can be specified to suit most applications.
The optional LCD display module is securely located behind a coated, scratch resistant water sealed polycarbonate window. Generous provision is made for the locatin of interface and encoding circuitry on the rear face of the keypad.
The FT Integrated Keypad can also be specified with the unique Storm 'Graphics' keytop technology. These innovative keytops enable customization of keytop characters and colours (even in low quantities). Please refer to the Storm 'Graphics Series' keypads datasheet for more information and Storm's 'Graphics' keytop technology.

- Weather and vandal resistant for outdoor and unsupervised public environments

- Optional 20 character x 4 line, illuminated LCD display

- Rapid, responsive and reliable data entry

- Stainless steel front plate

- Available with high impact polymer or chromed metal keys

- Easily and securely installed in vending machines, car-wash controllers, public telephones, ticketing machines, gasoline pumps and car-parking control equipment

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

Environmental

Water/Dust Sealed	IP65 (when mounted to suitable enclosure)
Operational Temperature	-20°C to +60°C (dry)

Material

Chassis	Super High Impact Polymer (black)
Front Panel	Stainless Steel
Keytops	Engraved chromed die-cast zinc, laser printed black polymer or 'Graphic'
Contact Circuit	Gold on Nickel plated FR4

Dimensions: 169.00, 111.00, R5.0 TYP.

FT Integrated Keypad with display only

All dimensions are in mm

FT Range

Item	Part Number
Chromed metal keys, no LCD	FT1K050
Chromed metal keys,with LCD	FT1K080
Polymer keys, no LCD	FT2K050
Polymer keys, with LCD	FT2K080
Graphic keys, no LCD	FT4K100
Graphic keys, with LCD	FT4K090

Accessories

Item	Part Number	Notes
Mountng kit	FTMK010	Includes gasket & frame
PC Interface	4200-00	RS-232 encoder
Ribbon cable	4200-10	Ribbon cable for connection to encoder

cRUus
UL File reference: E230121
Designed & produced by NIK Design www.nikdesign.co.uk

CE

5000-LIT-01 Rev 4
Nov 2008

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UKAS QUALITY MANAGEMENT 003

FM 39602

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