

# storm

## 5000 Series Integrated Keypads



### *Integrated keypads with optional display and card reader for industrial or public environments*

- *Rugged, reliable and responsive data entry*
- *Offered in shortened or extended configuration (with or without card reader option)*
- *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 to suit most applications*
- *Easily and securely installed*
- *Weather sealed for outdoor use*



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## 5000 Series Integrated Keypads

Developed for use in a wide range of industrial and commercial applications, this integrated keypad with optional card reader and display is ideal for use in exposed, hostile or public environments. The card reader and 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 location 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' keypad technology. These innovative keytops enable customisation of keypad characters and colours (even in low quantities). Please refer to the Storm K Range 'Graphics Series' keypads datasheet for more information about Storm's 'Graphics' keypad technology.

- Weather and vandal resistant for outdoor and unsupervised public environments
- Integrated hybrid card reader-writer optional
- Optional 20 Character x 4 Line, illuminated LCD display (LCD Graphic or Vacuum Fluorescent displays available)
- 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

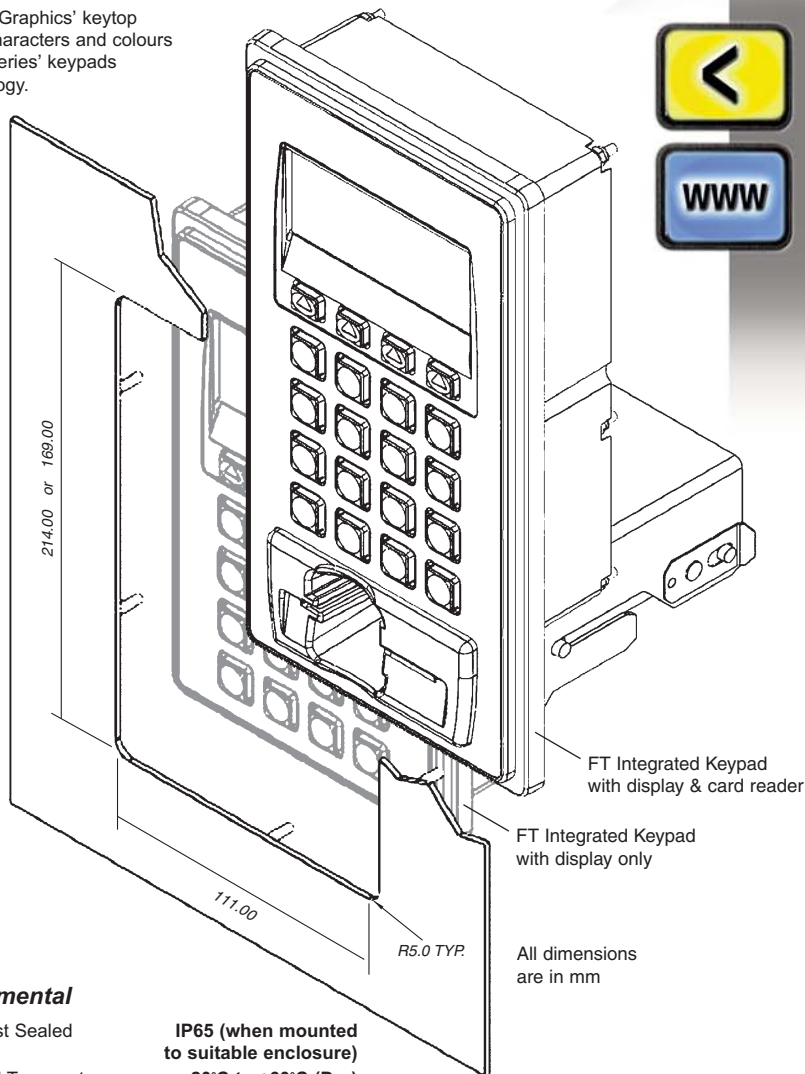
Operational Life	4 million cycles (min) per key
Keypop Travel	1.4mm nominal
Actuation Force	180gms nominal
Connector	0.1" pitch, gold plated square pin, male

### 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
Keypops	Chromed die-cast zinc
Keypop Legends	Engraved
Contact Circuit	Gold on Nickel plated FR4



FT Integrated Keypad with display & card reader  
 FT Integrated Keypad with display only  
 All dimensions are in mm

### Mounting Dimensions

Extended Configuration (card reader version)	Shortened Configuration (no card reader)
<b>Top mount requires cutout</b>	165.00 +/- 0.5mm x 108.50 +/- 0.5mm
208.60 +/- 0.5mm x 108.50 +/- 0.5mm	<b>Underpanel mount requires cutout</b>
<b>Underpanel mount requires cutout</b>	169.00 +/- 0.5mm x 111.00 +/- 0.5mm
214.00 +/- 0.5mm x 111.00 +/- 0.5mm	

### Accessories [x] denotes packaging variant

Item	Stock No.	Notes
Mounting kit for Shortened Configuration	FTMK010[x]	Includes gasket and frame
Mounting kit for Extended Configuration	FTMK0003	Card reader version Includes gasket and frame
PC Interface	4200-00X	RS232

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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