

Integrated Keypad, Display & Card Reader Module

(213.00 on card reader versions)

168.50 (

Integrated Keypads			
Description	Order Code		
Vandal resistant no display	FT1K050		
Vandal resistant no display with card reader	FT1K055		
Vandal resistant with display	FT1K080		
Vandal resistant with display and card reader	FT1K085		
Robust with display	FT4K090		
Robust with display and card reader	FT4K095		
Robust no display	FT4K100		
Robust no display with card reader	FT4K105		

Key layout on vandal resistant model

A	A	A	A
1	2	3	Α
4	5	6	В
7	8	9	С
* CLR	0	# ENT	•



Stock No. DESCRIPTION FT-LIT-01 FT Application Engineering Guide

FT-LIT-02 FT Character Display Datasheet FTMK00 Mounting Kit (card reader version)

Top mount requires 208.6 + 0.5mm x 108.5 + 0.5mm

R4.3 Typ (in corners)

Underpanel mount requires 213.0 + 0.5 x 111.0 + 0.5mm

R5 Typ (in corners)

FTMK01 Mounting Kit (includes gaskets / brackets)

Top mount requires 165.0 + 0.5 x 108.5 + 0.5mm

R4.3 Typ (in corners)

Under panel mount requires 168.5 + 0.5 x 111.0 + 0.5mm

R5.0 Typ (in corners)

GFX Keytop Accessories

Enables custom configuration of keytop graphics and colour GS000 Spare transparent keytops (set of 4) Fit once only

GSA0T2 Set A: 0-9, \leftarrow , \rightarrow , \uparrow , Ψ , *, #, +, , \div , =, ., X, AC, I/O, ENT, CE/C. GSB0T2

GSC0T2 Set C: "A TO Z"

GSD0T2 **Set D**: FI TO F12, £, \$, ?, !, (,), @, <, >, Fn, ", ', %, &.

GSE0T2 Set E: Blank

GS0006

GSF0T2 Set F: 0 - 9, →,A - F, CE/C, ENT, OFF, *, #, +, -, ., blank.

GS0001 White colour tile set GS0002 Grey colour tile set GS0003 Red colour tile set GS0004 Green colour tile set GS0005 Blue colour tile set

Yellow colour tile set

All dimensions in millimetres (mm). Full product specifications are available on request from your local Storm stockist. Storm keypads incorporate key switch technology protected by International Patents

> Whilst every effort is made to ensure details are correct at time of print, specifications are subject to change

FT-XX-08KT - Iss1





35.3

7.3

MOUNTING DETAILS

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R5.0 TYP.

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FM39602

Storm is a trademark of Keymat Technology Ltd



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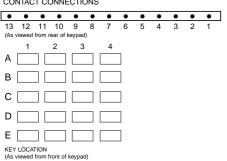
PRODUCT SPECIFICATIONS AND CONNECTION DETAILS

Connection Details for 20 Key Keypad

CONTACT MATRIX			
CONNECTOR	ROW/		
PIN	COLUMN		
1	LED-Cathode*		
2	Tamper In		
3	В		
4	С		
5	1		
6	3		
7			
8	4		
9	E		
10	D		
11	Α		
12	Tamper Out		
13	LED-Anode*		

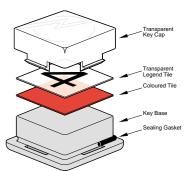
*For illuminated version only

CONTACT CONNECTIONS



Keytop Assembly Instructions

GFX Integrated keypads are supplied with the key bases fitted. Each key position except the top row can be customised without dismantling the keypad. Keytop options can be selected from a library of standard symbols, characters and background colours. Alternatively, customised keytop graphics can be created using laser printed acetate film or screen printed polymer film.



The total thickness of the coloured tile and legend tile should not exceed 0.4mm. (Please note, paper is not recommended as the printed graphics may degrade if exposed to moisture/condensation.)

- 1 Orientate the graphics on the keypad correctly.
- 2 Load each key position in turn. First locate the legend tile into the transparent key cap, then locate the transparent coloured tile
- 3 Before snapping the transparent key cap, (including legend and coloured tile) into position, ensure that the legend tile's position, orientation and alignment are correct.
- 4 Snap keytop into place ensuring the top is fully seated. Please note, if it is necessary to remove the transparent key cap a suitable tool or pliers should be used. Once removed the key cap should not be re-used; spare key caps and bases are available in sets of 4, part number GS0000.

KEYPAD SPECIFICATIONS

Vandal Resistant Impact Resistant IP Rating **Key Life (cycles)** Service Temp. (Non condensing) Case Material Case Colour Kevtops **Key Legends Contact Materials Contact Bounce** Contact Resistance Insulation Resistance **Breakdown Voltage Operating Voltage (contacts)** Operating Current (contacts) **Keytop Travel Actuation Force**

VANDAL RESISTANT

Yes

Up to IP67 (in a suitable enclosure) > 4 million

-40° C to +75° C (keypad only)

Super Impact polymer

Black case / stainless front

Chromed zinc Engraved and backfilled

Carbon / gold

5ms

100 ohms (max)

50 Mohms (min)

500 V ac (60 secs)

24 V dc (max)

50mA (max)

1.4 mm (nominal)

180 grams (nominal)

0.1" gold plated square pin with

locking ramps

ROBUST

No

Up to IP54 (in a suitable enclosure)

> 2 million

-10° C to +75° C (keypad only)

Super Impact polymer

Black case / polycarbonate front

GFX

User defined

Carbon / gold

5ms

100 ohms (max)

50 Mohms (min)

500 V ac (60 secs)

24 V dc (max)

50mA (max)

1.4 mm (nominal)

180 grams (nominal)

0.1" gold plated square pin with

locking ramps

CHARACTER DISPLAY (where specified) Type and Connections

Connector Type

Powertips 20 character x 4 line display type PC2004LRU-AEA-B Fitted with a single row of 16 0.1" gold plated square pins Service Temperature Range 0 °C to 50° C

ANTI TAMPER CIRCUIT Operating Voltage Operating Current Circuit Resistance (normally closed) Circuit Resistance (open)

24 V dc (max) 10 mA (max)

< 500 ohms

> 5 Mohms if the PCB is seperated in any way from the housing