torm Z Integrated Keypad, Display & Card Reader Module

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

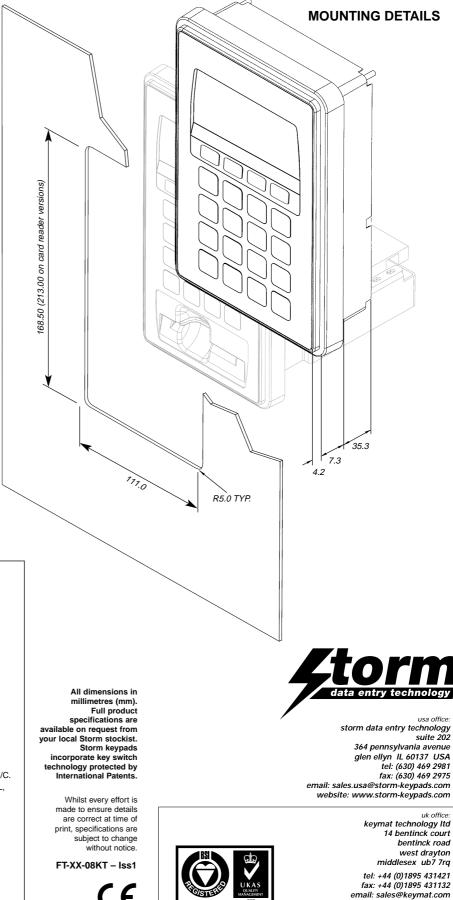
Key layout on vandal resistant model

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

* CLR	0 # • ENT
	SORIES FOR STORM CIAL TRANSACTION UNIT
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, ←, →, ↑, ↓, *, #, +, , ÷, =, ., X, AC, I/O, ENT, CE/C.
GSB0T2	Set B: ←, →, ↑, ↓, ENT, PRINT, DEL, INS, CAP, ESC, CTRL, ALT, ON, OFF, /, LOCK, ↑, ↦, ↑, \$£, :, ;, ,, .,, .
GSC0T2	Set C: "A TO Z"
GSD0T2	Set D: FI TO F12, £, \$, ?, !, (,), @, <, >, Fn, ", ', %, &.

GS Set D: FI TO F12, £, \$, ?, !, (,), @, <, >, Fn, ", ', %, &. GSE0T2 Set E: Blank GSF0T2 Set F: 0 - 9, →, A - F, CE/C, ENT, OFF, *, #, +, -, ., blank. White colour tile cot GS0001

00001	white colour the set
GS0002	Grey colour tile set
GS0003	Red colour tile set
GS0004	Green colour tile set
GS0005	Blue colour tile set
GS0006	Yellow colour tile set



November 2000

FM39602

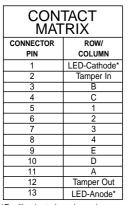
Storm is a trademark of Keymat Technology Ltd

website: www.keymat.com

Form Integrated Keypad, Display & Card Reader Module-

PRODUCT SPECIFICATIONS AND CONNECTION DETAILS

Connection Details for 20 Key Keypad

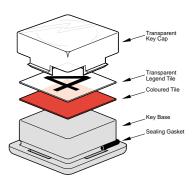


*For illuminated version only

CONTACT CONNECTIONS • • • • • • 4 13 12 11 10 9 8 7 6 5 3 2 (As viewed from rear of keypad) 2 3 А в С D E KEY LOCATION (As viewed from front of keypad)

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 (see diagram).
- **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 Keytops Key Legends Contact Materials Contact Materials Contact Bounce Contact Resistance Insulation Resistance Breakdown Voltage Operating Voltage (contacts) Operating Current (contacts) Keytop Travel Actuation Force Connector Type	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	ROBUSTNoNoUp to IP54 (in a suitable enclosure)> 2 million-10° C to +75° C (keypad only)Super Impact polymerBlack case / polycarbonate frontGFXUser definedCarbon / gold5ms100 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 withlocking ramps
CHARACTER DISPLAY (where specified) Type and Connections ANTI TAMPER CIRCUIT	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	
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	