Storm

5000 Series
Toughened Display Bezel

For menu driven applications in the toughest environments

- **Impact resistant 10J BS EN 60068-2-75: 1997)**

- **Weather sealed for outdoor use**

- **Clear, scratch resistant, anti-reflective display window**

- **Responsive menu navigation and option select keys**

- **Under-panel fixing through panel thickness of up to 2mm**

- **Supplied complete with panel gasket**

- **Resistant to petrochemicals and most commonly used cleaning agents**

- **-20°C (dry) to +60°C (bezel only – display temp range specified according to application)**

- **Accomodates most LCDs with mounting centers at 93 x 55mm**

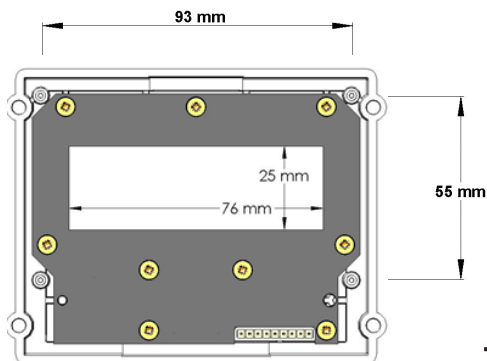- **Available with or without optional 4 x 20 character LCD**

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Storm

5000 Series – Toughened Display Bezel
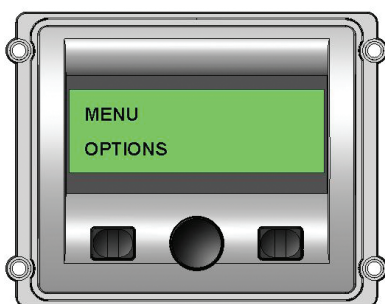
Rear View (No LCD)

93 mm

25 mm
76 mm
55 mm

**WINDOW VIEW AREA IS 76 mm x 25 mm
LCD MOUNTING CENTRES AT 93 mm x 55 mm**
USE M2.2 SCREW FOR LCD FIXING
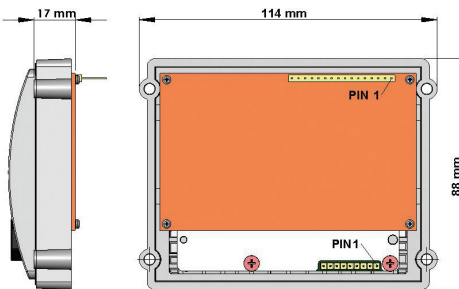
Unit with LCD fitted

MENU

OPTIONS

Position 1	Position 2	Position 3
R1C1	R1C2	R1C3

Overall Dimensions

17 mm
114 mm
PIN 1
88 mm
PIN1

Host Panel Cutout

106.00mm
95.70mm
R 3.0

65.00mm
80.60mm

4 off M3 x 20mm
stainless steel
weld stud

Recommended panel material 1.6 or 2.0mm stainless steel. Tolerances ± 0.5mm
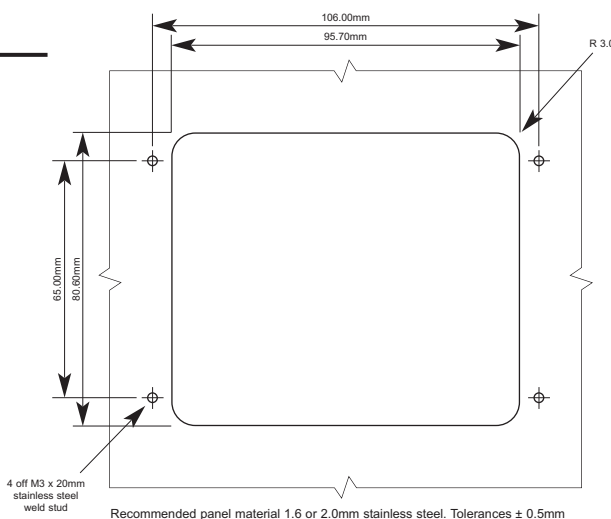
Matrix Keypad Connections

Contact Connections *(viewed from rear of keypad)*

PINS	•	•	•	•	•	•	•	•	•
PIN NO.	9	8	7	6	5	4	3	2	1

Contact Matrix

PINS	ROW / COLUMN
7	C1
6	C2
5	C3
3	R1

Installation

1. Prepare host panel and connection cable(s).
   For keypad use Molex 2695 Connector 5 way
   (PN22-01-2051) or 9 way (PN 22-01-2091).
   For LCD use PN 22-01-2161.

2. Fit the supplied gasket over the 4 weld studs on the
   rear of the host panel.

3. Slide the display bezel over the studs and secure with
   M3 Nyloc Nuts or similar.

Specifications

Responsive menu navigation
and option select keys

Matrix Output to 0.1" square pins   **compatible with
Molex KK Housing**

Overall Size   **110 mm wide x 88 mm high**

Optional backlit 4 line x 20   **Powertips**
character LCD fitted with   **PC2004-A–LRU-H**
a single row of 16 0.1"
square pins LCD Operating
Voltage +5V to +9V (see note *)

Panel Mount Gasket included

Responsive key action   **travel 1.5 mm (nominal)
force 130 gm (nominal)**

Panel Cutout   **96 mm x 81 mm**

Operating Temp   **-20ºC to +60ºC**

Switch Rating   **24 V dc (Max), 50 mA (Max)**

Contact Resistance   **100 Ohms (Max)**

Ordering Details [x] denotes packaging variant

Item	Stock No.
Display Bezel 3 Key	5001-20010[x]
Display Bezel 3 Key **with 4 x chararcter display**	5001-20020[x]

Note*: LCD Rating – Temperature Compensation
An LCD operating voltage varies at different temperatures. The operating
voltage must rise as temperature lowers or the contrast will degrade.
Conversely, the operating voltage must fall as the temperature rises or the
contrast will degrade. A temperature compensation circuit is required to
control the input voltage as the temperature changes.

For Connection Information for LCD see:
Powertip PC 2004-A Datasheet for 4 x 20 Character LCD

c **UL** US

UL File reference: E230121

CE

500-xx-08KT
Rev 5 May 2019

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