

# storm<sup>®</sup>

## 1000 Series

Attack resistant keypads for use in hostile outdoor environments.

A range of attack resistant keypads for use in the most demanding public or outdoor environments. Typical applications include payphones, security and access control systems, cash and ticket dispensing machines and interactive public information systems.

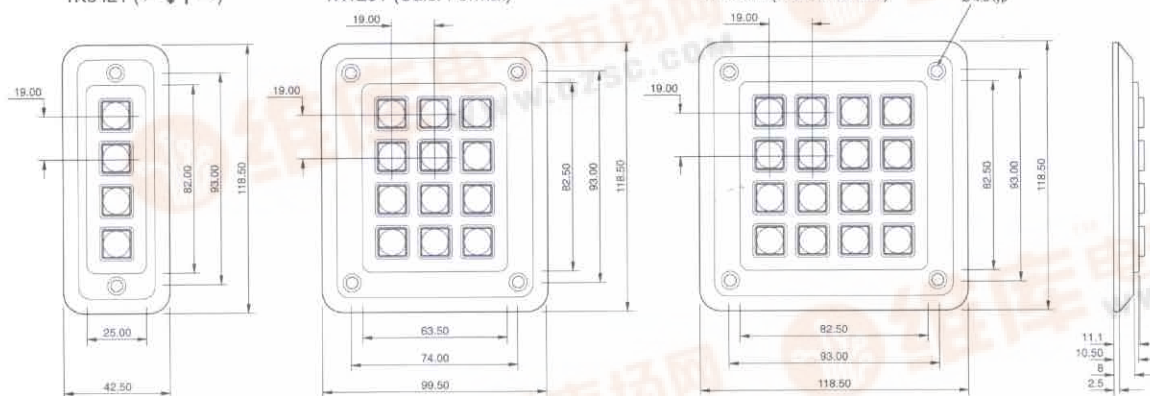
Part No.s

1K0421 (F1-F4)

1K0421 (← ↓ ↑ →)

1K12T1 (Tel. Format)  
1K1201 (Calc. Format)

1K16T1 (Tel. Format)  
1K1601 (Calc. Format)



VANDAL RESISTANT

IMPACT RESISTANT

IP67 SEALED

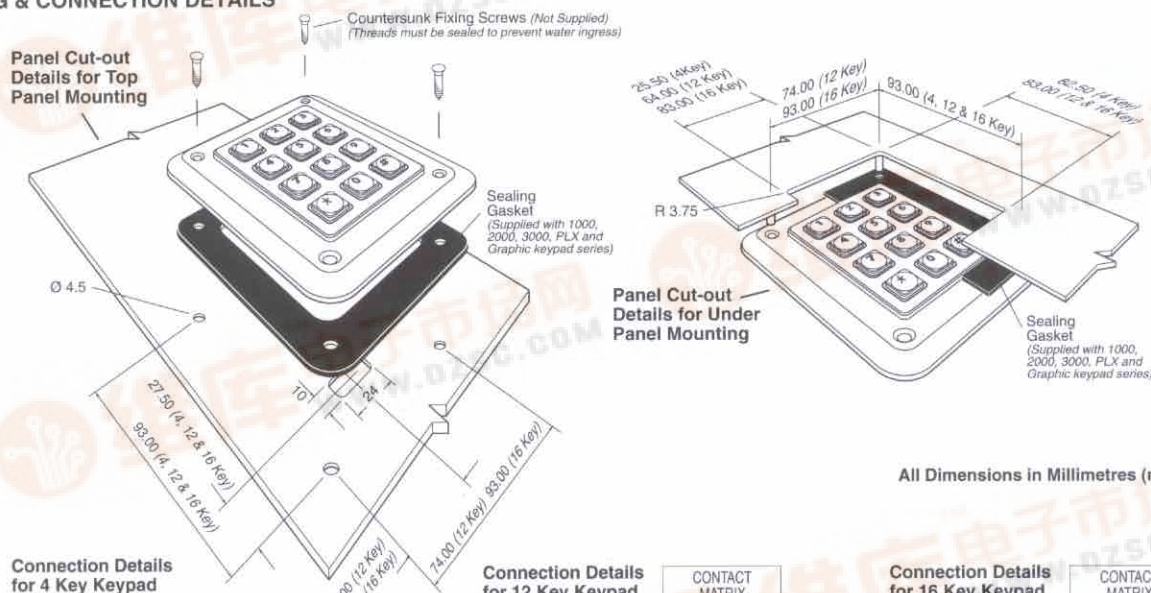
OPERATIONS PER KEY

RESPONSIVE KEY ACTION

ESD PROTECTED

CE COMPLIANT

### MOUNTING & CONNECTION DETAILS



All Dimensions in Millimetres (mm).

#### Connection Details for 4 Key Keypad

CONTACT CONNECTIONS  
5 4 3 2 1  
(As viewed from rear of keypad)

A 1  
B  
C  
D

KEY LOCATION  
(As viewed from front of keypad)

| CONN. PIN | ROW/COLUMN |
|-----------|------------|
| 1         | common     |
| 2         | D          |
| 3         | C          |
| 4         | B          |
| 5         | A          |

#### Connection Details for 12 Key Keypad

CONTACT CONNECTIONS  
8 7 6 5 4 3 2 1  
(As viewed from rear of keypad)

A 1 2 3  
B  
C  
D

KEY LOCATION  
(As viewed from front of keypad)

| CONN. PIN | ROW/COLUMN |
|-----------|------------|
| 1         | A          |
| 2         | B          |
| 3         | 1          |
| 4         | 2          |
| 5         | 3          |
| 6         | -          |
| 7         | D          |
| 8         | C          |

#### Connection Details for 16 Key Keypad

CONTACT CONNECTIONS  
8 7 6 5 4 3 2 1  
(As viewed from rear of keypad)

A 1 2 3 4  
B  
C  
D

KEY LOCATION  
(As viewed from front of keypad)

| CONN. PIN | ROW/COLUMN |
|-----------|------------|
| 1         | A          |
| 2         | B          |
| 3         | 1          |
| 4         | 2          |
| 5         | 3          |
| 6         | 4          |
| 7         | D          |
| 8         | C          |

#### 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)

#### ENVIRONMENTAL

Water / Dust Sealed IP67 (when mounted to suitable enclosure)  
Operational Temperature -40°C to +100°C (Dry)  
Impact 20 Joules via 50mm Ø steel impactor

#### MECHANICAL

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

#### MATERIAL

Casing & Keytops Chromed die-cast zinc  
Keytops Legends Engraved  
Contact Circuit Gold on Nickel plated FR4



FM 39602

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Whilst every effort is made to ensure details are correct at time of production, specifications are subject to change without notice.

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# Anti-vandal keypads for hostile outdoor environments



VANDAL RESISTANT



IMPACT RESISTANT



IP67 SEALED



>4 Million

OPERATIONS PER KEY



RESPONSIVE KEY ACTION



ESD PROTECTED



CE COMPLIANT

Attack resistant  
keypads designed  
to ensure reliable  
and responsive  
operation in the  
most demanding  
public applications.

**storm**<sup>®</sup>  
1000 Series

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