# Ideco SurgeTek Surge Arrestor

**Don't neglect to protect!**

## SurgeTek Surge Arrestor – Lightning and surge protection for your MorphoAccess solution

Fact: As much as 80% of problems on electronic equipment are associated, directly or indirectly, with lightning and over-voltage surges.

- Cuts recurring call-out costs

- Minimises equipment replacement and repair costs

- Maintains 24/7 security by preventing downtime

- Protects the bottom line by cutting cost-of-ownership

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# Ideco SurgeTek Surge Arrestor benefits

**Protects the Wiegand port and power supply input**

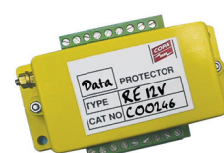**Maintains 24/7 security by preventing downtime**

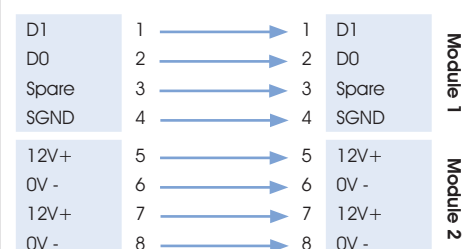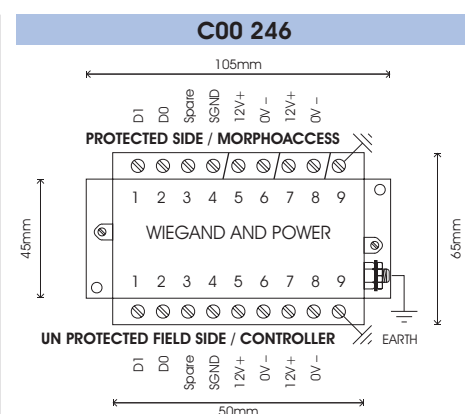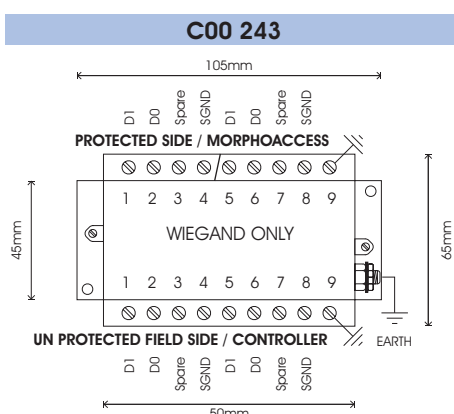**Avoids unnecessary repair and call-out costs**

**Protects the bottom line**

Ideco SurgeTek Surge Arrestor protects the Wiegand port and/or power port of MorphoAccess terminals. It is installed between MorphoAccess terminals and third party controllers to protect the Wiegand port and/or power port from electrical surges.

Surges, spikes and sags occur daily. Many are virtually unnoticeable, but inevitably, some stronger power pulses do cause damage – either immediately or over a period of time.

Ideco SurgeTek Surge Arrestor works by channelling over-voltage into the electrical outlet's earth or ground wire, stopping it from reaching your equipment and maintaining normal voltage.

| Technical Data | C00 243 | C00 246 | |
|---|---|---|---|
| Reference | RD | RD | RD |
| Operating Voltage | 12V | 12V | 12V |
| Clamping Voltage W/SGND | 15V | 15V | --- |
| Clamping Voltage W/W | --- | --- | 15V |
| Clamping Voltage W/E | 90V | 90V | 90V |
| Series resistance | 10 | 10 | --- |
| Series Inductance | --- | --- | $100\mu$H |
| Specific Application | 2 x Wiegand only | Wiegand | Power |
| Peak Surge Current | 10kA | 10kA | 10kA |
| Response Time | <1 ns | <1 ns | <1 ns |

**Please note:**
The earth must be connected for this device to function.

When using POE, it is highly recommended to use inline surge protection on the ethernet port as well.

| C00 243 | C00 246 |
|---|---|

### C00 243

PROTECTED SIDE / MORPHOACCESS

D1  D0  Spare  SGND  D1  D0  Spare  SGND

105mm

45mm

WIEGAND ONLY

1 2 3 4 5 6 7 8 9

65mm

UN PROTECTED FIELD SIDE / CONTROLLER    EARTH

D1  D0  Spare  SGND  D1  D0  Spare  SGND

50mm

| | | | | Module 1 |
|---|---|---|---|---|
| D1 | 1 → 1 | D1 | | |
| D0 | 2 → 2 | D0 | | |
| Spare | 3 → 3 | Spare | | |
| SGND | 4 → 4 | SGND | | |

| | | | | Module 2 |
|---|---|---|---|---|
| D1 | 5 → 5 | D1 | | |
| DO | 6 → 6 | DO | | |
| Spare | 7 → 7 | Spare | | |
| SGND | 8 → 8 | SGND | | |

### C00 246

PROTECTED SIDE / MORPHOACCESS

D1  D0  Spare  SGND  12V+  0V –  12V+  0V –

105mm

45mm

WIEGAND AND POWER

1 2 3 4 5 6 7 8 9

65mm

UN PROTECTED FIELD SIDE / CONTROLLER    EARTH

D1  D0  Spare  SGND  12V+  0V –  12V+  0V –

50mm

| | | | | Module 1 |
|---|---|---|---|---|
| D1 | 1 → 1 | D1 | | |
| D0 | 2 → 2 | D0 | | |
| Spare | 3 → 3 | Spare | | |
| SGND | 4 → 4 | SGND | | |

| | | | | Module 2 |
|---|---|---|---|---|
| 12V+ | 5 → 5 | 12V+ | | |
| 0V - | 6 → 6 | 0V - | | |
| 12V+ | 7 → 7 | 12V+ | | |
| 0V - | 8 → 8 | 0V - | | |

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