

## iSOLATE100M Intrinsically Safe PS2/Serial Interface Isolator for location in the hazardous area



**Galvanic isolation for keyboards, pointing devices, barcode scanners and other RS232/RS485 serial interfaces suitable for location in the hazardous area**

**ATEX II 2 G EEx m [ia] IIC T4  
II D T75°C IP67**

**-30°C to +60°C (-22°F to +140°F)**

**IP67**

### Overview

The iSOLATE100M is an ATEX certified intrinsically safe PS2 and serial interface suitable for hazardous area mounting. The device allows connection of hazardous area peripherals such as pointing devices, keyboards and scanners to PC systems located in a safe area. The iSOLATE100M is designed for use with Extronics own range of keyboards and pointing devices such as trackball, trackpad or finger mouse but can be used with other manufacturers compatible equipment.

### Features and Benefits

#### Multiple Applications

The unit is simple to operate and is available in a variety of configurations as specified in the ordering data below.

#### No High Integrity Earth Required

With both galvanic and optical isolation for the power and the interfaces no high integrity earth is required or consideration about potential differences occurring meaning low simple and trouble free installation.

#### Long Distance Connection

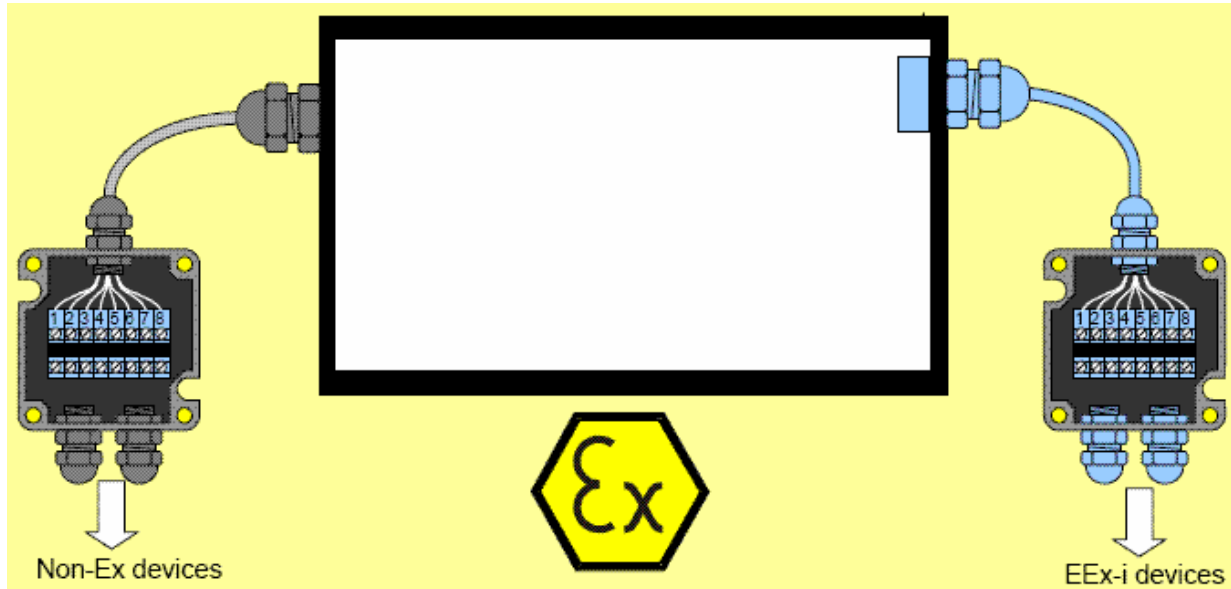
Keyboard or pointing device may be up to 20 metres away from the PC in the hazardous area using a PS2 cable or up to 70 metres using a CAT6 STP cable

#### Location

Suitable for location in zone 1 hazardous area

### Specification

<b>Certificate Number</b>	TUV 04 ATEX 2645
<b>Certification Type</b>	ATEX II 2 G EEx m [ia] IIC T4 II D T75°C IP67
<b>Dimensions</b>	105 x 166 x 44 mm (w x h x d) plus connection enclosures 4.13 x 6.54 x 1.73 inches
<b>IP Rating</b>	IP67
<b>Ambient Temperature</b>	-30°C to +60°C (-22°F to +140°F)
<b>Weight</b>	1.6Kg (3.53lbs)
<b>Relative humidity</b>	0 to 75%, non-condensing
<b>Housing</b>	Aluminium
<b>Electrical Connection</b>	Multiple connection options, glands with flying leads, terminal enclosures or PS/2 plugs.
<b>Power Supply</b>	Powered from PC PS2 port or separate 5 VDC supply
<b>Mounting</b>	Surface using two brackets supplied
<b>Interfaces</b>	2 x PS2, One can be configured for single direction RS232 (Rx from hazardous to safe area) Optional keyboard/mouse wedge for safe area



## Ordering Information

### iSOLATE100M

#### Please Specify [#1] - Type of configuration

Intrinsically Safe Keyboard Interface two PS/2 safe area to two PS/2 hazardous area  
 Intrinsically Safe Keyboard Interface PS/2 Keyboard Wedge  
 Intrinsically Safe Keyboard Interface PS/2 and RS232  
 Intrinsically Safe Keyboard Interface PS/2 and RS485

#### Please Specify [#2] - Type of terminal Safe Area PC side

Flying Leads  
 Exe Terminal Enclosure

#### Please Specify [#3] - Type of terminal hazardous Area PC side

PS/2 Connections  
 Exe Terminal Enclosure

#### Accessories

PS/2 to USB converter  
 Keyboard/Mouse Extender

### iSOLATE100M-[#1]-[#2]-[#3]

EX01  
 EX02  
 EX03  
 EX04

1  
 2

1  
 2

USBCONV1  
 CE120