



## UNIVERSAL SIGNAL ISOLATER (Unipolar & Bipolar 3-way isolated)

**BSI 7804**

- ◆ Isolated >1000V (3-way)
- ◆ Plug-in for 11-pin relay socket
- ◆ Signal converter, isolator, mV transmitter
- ◆ Accepts linear current and voltage signals
- ◆ Bipolar voltage input / output
- ◆ Unipolar voltage input / output
- ◆ Built-in digital filter
- ◆ Direct or reverse conversion
- ◆ Full digital technology - no analog adjustments
- ◆ 0-50 to 100mV or 0-10VDC, 0-1 to 0-(4) -20mA input
- ◆ Linearity better than 0,05%
- ◆ Accuracy error better than 0.1%
- ◆ Transmitter supply 24V/30mA
- ◆ Custom linear input/output
- ◆ Supply 230, 115VAC, 12-24VAC/DC

### DESCRIPTION

The BASI Isolated converter/transmitter with universal input/output model BSI7804 is an economical and excellent choice for accurate signal conversion. The BSI7804 including mV, V and mA DC and bipolar inputs. One 0(4) -20mA, 0-10 or -10 to +10VDC outputs, direct or reverse and built-in digital filter. Designed to fit in a standard 11-pole relay socket, mounting is very easy and maintenance a snap.



### SPECIFICATIONS GENERAL

**Construction** : Plug-in to standard 11-pole relay socket  
**Wiring** : Screw terminals on base socket  
**Housing material** : "Noryl" grey  
**Isolation** : Input to output to supply (3-way) >1000V

#### INPUT

**Current** : 0-1, 0-5, 0-20, 4-20mA max 100mA  
**Custom current** : 0 to max 100mA  
**Input resistance** : Max 10Ω  
**Voltage** : 0-10 to 100mV, 0-10 VDC  
**Input resistance** : Min 1GΩ  
**Linear resistance** : 0-1kΩ min 0-100Ω, max 100kΩ  
**Custom linear** : Specify  
**Bipolar** : Min -10 to max +10VDC, -20 to +20mA

#### OUTPUT

**Current** : 0(1)...5 mA, 2...10 mA, 0(4)...20 mA  
**Load** : Max 0 - 600Ω  
**Voltage** : 0...1 V, 0...2 V, 0(1)...5 V, 0(2)...10 V  
**Load** : Min 1kΩ  
**Bipolar** : Min -10 to max +10VDC  
**Custom** : Specify  
**Transmitter supply** : 24VDC max 30mA  
**Direct or reverse** : Jumper selectable  
**Output at input failure**: up/down-scale (jumper selectable)

#### INSTALLATION

**Supply** : 230, 115, 24VAC or 12-24VAC/DC  
**Ambient temp** : -25 to 70°C  
**Humidity** : 0-95% RH  
**Configuration** : Factory set  
**Protection class** : IP44/IP20  
**Dimension** : 35 x 78 x 91mm  
**Weight** : 200g

### PERFORMANCE (% of span)

**Linearity error** : < ±0.05% FS  
**Accuracy error** : < ±0.1% FS  
**Temp drift** : 0.01% from span for 1°C  
**Power consumption** : 100mA  
**Peak holding time** : Programmable  
**Offset** : Within range  
**Damping** : Programmable  
**Communication** : RS232 (requires special cable type K2 or K12U)  
**Sensor failure** : 0 mA or > 20.2 mA, programmable  
**Dielectric strength** : 2000VAC @ 1 minute  
**Isolation** : Input to output to supply (3way) 1000VDC/AC peak



### ORDER INFORMATION

#### BSI7804

| SUPPLY        | INPUT       | OUTPUT      |
|---------------|-------------|-------------|
| Z Specify     | Z Specify   | Z Specify   |
| A 230VAC      | A 0-5mA     | B 0-5mA     |
| B 115VAC      | B 0-20mA    | C 1-5mA     |
| Q 12-24VAC/DC | C 4-20mA    | D 2-10mA    |
| R 24VAC       | F 0-50mV    | E 0-20mA    |
|               | G 0-10mV    | F 4-20mA    |
|               | H 0-1V      | G 0-1V      |
|               | I 0-2V      | H 0-2V      |
|               | J 0-5V      | I 0-5V      |
|               | K 0-10V     | J 1-5V      |
|               | L 2-10V     | K 0-10V     |
|               | K1 -10-+10V | L 2-10V     |
|               |             | K1 -10-+10V |

Z: Please specify input/output



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