

# CURRENT

## GENERAL PROCESS SPECIFICATIONS

Nominal Range	±1 mA	±25 mA	±100 mA
Measurement Range	±1.25 mA	±30 mA	±120 mA
Max. Common Mode Voltage	0 to 2.5 V	0 to 2.5 V	0 to 2.5 V
Resolution	0.05 µA	1.0 µA	5.0 µA
Calibrated Accuracy	±0.5% FSR	±0.1% FSR	±0.1% FSR
Specified Input Impedance	50 ohm	10 ohm	2 ohm
Overload Protection	±20 mA	±100 mA	±125mA

**Input Connection:** Removable screw terminal  
**Analog Conversion Time:** 133 ms  
**Frequency Rejection:** 60 Hz  
**Temperature Coefficient:** <100 ppm/°C; <50 ppm/°C typical  
**Scale Factor:** User may program any desired scaling factor from ±1.000E-31 to ±9.999E+31.  
**Engineering Units:** User may define units up to 10 characters in length. This value is stored in the device.



### PROCESS101 FEATURES

Memory	32,767
Form Factor	A
Battery Factor	1
Battery Life	1 yr.
Weight	1 oz (30 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0502	PROCESS101	Low Level Current Recorder 100 mA



### PROCESS110 FEATURES

Memory	32,767
Form Factor	A6
Battery Factor	1
Battery Life	10 yr.
Weight	2 oz (60 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0512	PROCESS110-1	Low Level Current Recorder
5399-0513	PROCESS110-25	Low Level Current Recorder
5399-0514	PROCESS110-100	Low Level Current Recorder

# STATE/EVENT

All our STATE/EVENT recorders are devices which sense input transitions or contact closures from external sources such as transducers and/or state initiators. STATE recorders time stamp when any change of state (+ and -) occurs. EVENT recorders time stamp when predefined unidirectional change (+ or -) occurs. Memory is nonvolatile solid state. The device can be started and stopped directly from your PC and is fully supported by our graphical Windows® based software.

## GENERAL STATE SPECIFICATIONS

**Input Connection:** Removable screw terminal  
**Input Low:** < 0.4 V  
**Input High:** > 2.7 V  
**Input Range:** 0 to 30 V  
**Input Impedance:** > 1Kohm  
**Time Resolution:** 1 second (reading rate dependent)  
**Visual Indicator:** LED flashes at selected reading rate.  
**Engineering Units:** User may define units up to 10 characters in length. This value is stored in device.  
**Scale Factor:** User may program any desired scaling factor from ±1.000E-31 to ±9.999E+31. The scaling factor is stored within the device.  
**Real Time Recording:** When used with PC.  
**Reading Interval:** 1/second to 1 every 12 hours.  
**Replaceable Battery:** 1 year typical life at 25 °C  
**Data Format:** Date and time stamped state changes (on/off)  
**Time Accuracy:** ±1 minute/month at 20 °C, no RS232 in use.  
**Computer Interface:** PC serial or RS232C COM (Interface cable required); 2400 baud  
**Software:** Windows 95/98/ME/NT/2000/XP compatible.  
**Operating Environment:** -40 to +80 °C, 5 to 95 %RH non-condensing



### STATE101 FEATURES

Memory	13,107
Form Factor	A-1
Battery Factor	1
Battery Life	1 yr.
Weight	1 oz (30 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0707	STATE101	State Recorder



### STATE110 FEATURES

Memory	13,107
Form Factor	A2
Battery Factor	1
Battery Life	10 yr.
Weight	1 oz (30 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0708	STATE110	State Recorder



### QUADSTATE FEATURES

Memory	52,484 state changes
Form Factor	B
Battery Factor	2
Battery Life	1 yr.
Weight	13 oz (370 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0704	QUADSTATE	4 Channel State Recorder



### OCTSTATE FEATURES

Memory	104,857 state changes
Form Factor	B-1
Battery Factor	2
Battery Life	1 yr.
Weight	17 oz (480 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0705	OCTSTATE	8 Channel State Recorder

## GENERAL EVENT SPECIFICATIONS

**Input Connection:** Removable screw terminal  
**Input Low:** < 0.4 V  
**Input High:** > 2.7 V  
**Input Range:** 0 to 30 V  
**Input Impedance:** > 1Kohm  
**Minimum Input Active (Low) Time:** 1 ms  
**Time Resolution:** 1 second (reading rate dependent)  
**Visual Indicator:** LED flashes at selected reading rate  
**Engineering Units:** User defined units up to 10 characters in length. This value is stored in device  
**Scale Factor:** User may program any desired scaling factor from ±1.000E-31 to ±9.999E+31. The scaling factor is stored within the device.  
**\*Reading Interval:** 1 every second to 1 every 12 hours.  
**Data Format:** Date and time stamped events (true/false)  
**Time Accuracy:** ±1 minute/month (at 20 °C, no RS232 use.)



### EVENT101 FEATURES

Memory	13,107
Form Factor	A-1
Battery Factor	1
Battery Life	1 yr.
Weight	1 oz (30 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0703	EVENT101	Event Recorder



### EVENT110 FEATURES

Memory	13,107
Form Factor	A2
Battery Factor	1
Battery Life	10 yr.
Weight	10 oz (30 g)

### ORDERING INFORMATION

Item No.	Name	Description
5399-0706	EVENT110	Event Recorder

\*Device records one event per user defined reading interval.