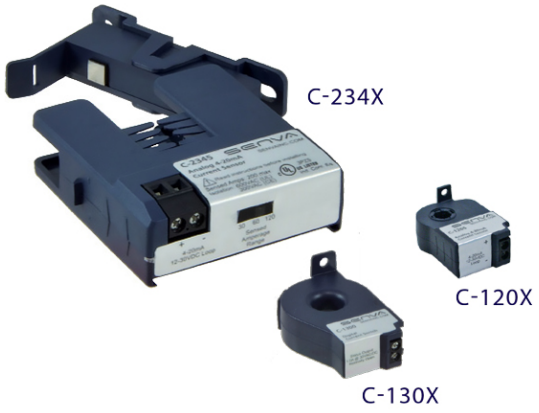
## *Analog Current Series*

# *Current Transducers*

0-5VDC, 0-10VDC, and 4-20mA linear output options

No call backs due to mis-sizing

Selectable range split-cores, fixed range solid-cores

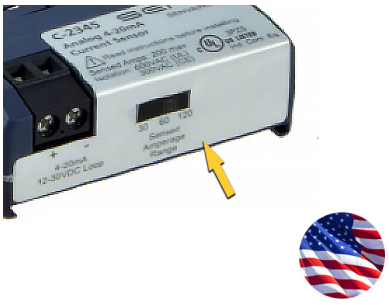



### DESCRIPTION

Senva analog transducers measure AC current and provide a proportional output for load trending and control. Choose from easy to install split-core or compact solid core. Selectable ranges and optional command relay make for a versatile transducer.

### APPLICATIONS

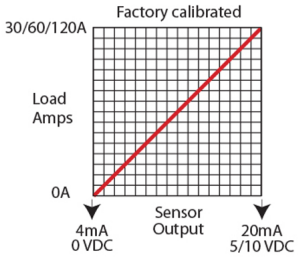
- Load trending
- Motor control
- Process control
- Fan/Pump status
- Motor load jamming
- Lighting load levels
- Great for data centers



*Selectable ranges reduce inventory and minimize callbacks. Made in USA*



*Optional CR command relay for stop/start/status in a single labor saving device.*




*Factory calibrated*

## FEATURES

- Selectable ranges (30, 60, 120A or 5, 10, 20A) C-234X makes scaling easy, reduces call-backs and inventory
- 0-5VDC, 0-10VDC, 4-20mA loop powered versions for control compatibility
- Superior split-core design for easy installation, mount sensor without removing conductor for installation savings
- Clamp on conductor with iris or use detachable base to screw or DIN mount
- Larger 0.75" aperture accomodates oversize conductors
- Snap-on command relay for unitary start/stop/status... saves time and space
- Industry leading 7 year limited warranty

## ORDERING

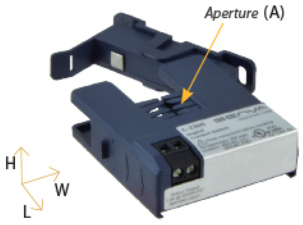
| SPLIT CORE | Range Type | Max Amp Range | Output | Power Needed | Sensor Power Type |
|---|---|---|---|---|---|
| C-2343 | Selectable | 30A, 60A, 120A | 0-5 VDC | None | Induced |
| C-2344 | Selectable | 30A, 60A, 120A | 0-10 VDC | None | Induced |
| C-2345 | Selectable | 30A, 60A, 120A | 4-20 mA | 12-30 VDC | Loop |
| C-2343-L | Selectable | 5A, 10A, 20A | 0-5 VDC | None | Induced |
| C-2345-L | Selectable | 5A, 10A, 20A | 4-20 mA | 12-30 VDC | Loop |
| C-2343-200 | Fixed | 200A | 0-5 VDC | None | Induced |
| C-2344-200 | Fixed | 200A | 0-10 VDC | None | Induced |
| **SOLID CORE** | | | | | |
| C-1303 | Fixed | 15A | 0-5 VDC | None | Induced |
| C-1303-L | Fixed | 5A | 0-5 VDC | None | Induced |
| **SOLID CORE - MINI** | | | | | |
| C-1203 | Fixed | 15A | 0-5 VDC | None | Induced |
| C-1205 | Fixed | 15A | 4-20 mA | 12-30 VDC | Loop |
| C-1203-L | Fixed | 5A | 0-5 VDC | None | Induced |

| COMMAND RELAY - DIRECT MOUNT (MOUNTS ON ALL 2300 SERIES CURRENT DEVICES) | Contact rating | Coil |
|---|---|---|
| CR3-24 | N.O. 10A @ 125VAC | 24VAC/DC 15mA nominal |
| CR4-24 | N.C. 10A @ 125VAC | 24VAC/DC 15mA nominal |
| CR3-12 | N.O. 10A @ 125VAC | 9-12VDC 30mA nominal |
| CR4-12 | N.C. 10A @ 125VAC | 9-12VDC 30mA nominal |

*Other coil voltages available—consult factory*

## DIMENSIONS

### SPLIT CORE
### C-2300




L: 2.5" H: 0.57" W: 2.23"
A: 0.75"x. 0.75"

- Mount sensor without removing conductor for installation savings
- Clamp on conductor with iris, or use detachable base to screw or DIN mount
- Larger 0.75" aperture accomodates oversize conductors

### OPTIONAL RELAY



L: 0.84" H: .72" W: 2.06"

- Add to 2300 series to get start/stop/status in a single device
- Reduces the number of installed components... saves time and space
- Removable relay facilitates service

### SPLIT CORE - MINI
### C-2200




L: 2.00" H: .75" W: 1.75"
A: .0.40"x 0.32"

- Mount sensor without removing conductor for installation savings
- Fits in small enclosures
- Clamp on conductor with iris, or screw mount detachable base

### SOLID CORE
### C-1300




L: 2.27" H: 1.04" W: 1.6"
A: 0.52" diameter

- Compact design
- Aperture accomodates spade terminals

### SOLID CORE - MINI
### C-1200




L: 1.78" H: .88" W: 1.31"
A: 0.30" diameter

- Super small—fits anywhere
- Low cost

**Warning:** The datasheet is designed for reference only. Refer to installation instructions that accompany the product and heed all safety instructions. Product improvement is a continuing process at Senva. Changes may occur to products without prior notice.

## SPECIFICATIONS

### ORDERING INFORMATION

| Split Core | Amperage Range | Output | Sensor Power | Sensor Aperature |
|---|---|---|---|---|
| C-2343 | 30A, 60A, 120A Selectable | 0 - 5 VDC | Induced | 0.75" |
| C-2344 | 30A, 60A, 120A Selectable | 0 - 10 VDC | Induced | 0.75" |
| C-2345 | 30A, 60A, 120A Selectable | 4 - 20mA | Loop- powered, 12-30 VDC | 0.75" |
| C-2343-200 | Fixed 200A Full-Scale Range | 0 - 5 VDC | Induced | 0.75" |
| C-2344-200 | Fixed 200A Full-Scale Range | 0 - 10 VDC | Induced | 0.75" |
| C-2343L | 5A, 10A, 20A Selectable | 0 - 5 VDC | Induced | 0.75" |
| C-2345L | 5A, 10A, 20A Selectable | 4-20mA | Loop- powered, 12-30 VDC | 0.75" |
| Solid Core - Mini | Range A | Output | Sensor Power | |
| C-1203 | 15 A | 0 - 5 VDC | Induced | 0.30" |
| C-1203-L | 5 A | 0 - 5 VDC | Induced | 0.30" |
| C-1205 | 15 A | 4 - 20mA | Loop- powered, 12-30 VDC | 0.30" |

| Command Relay | Contact rating | Coil | Dimensions (LxWxH) |
|---|---|---|---|
| CR3-24 | N.O. 10A@125VAC | 24VAC/DC, 15mA nom. | 2.94" x 2.23" x 0.82" (1.4" H with relay module) |
| CR4-24 | N.C. 10A@125VAC | 24VAC/DC, 15mA nom. | 2.94" x 2.23" x 0.82" (1.4" H with relay module) |
| CR3-12 | N.O. 10A@125VAC | 9-12VDC, 30mA nom. | 2.94" x 2.23" x 0.82" (1.4" H with relay module) |
| CR4-12 | N.C. 10A@125VAC | 9-12VDC, 30mA nom. | 2.94" x 2.23" x 0.82" (1.4" H with relay module) |

### Specifications

| | |
|---|---|
| Environmental Rating | 5-140 °F (-15-60 ° C)<br>10-90% RH Non-condensing |
| Insulation Class | 600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor |
| Accuracy | +/-2% F.S. over 10 to 100% range |
| Frequency Range | 50/60Hz |

** Product improvement is a continual process at Senva and product features and specification may change without prior notice. Refer to instructions that accompany the product for installation and wiring.*