



# AC Current Century Style

- UL Recognized
- Phenolic Cases
- $\pm 2\%$  of Full Scale Accuracy
- Three Popular Sizes: 2-1/2", 3-1/2" and 4-1/2"
- Glass Windows

An attractive design for industrial or commercial applications, the Century offers maximum reliability, and is accurate to  $\pm 2\%$  of full scale (F.S.) on all readings. The Century offers an iron-vane movement that allows the instrument to be mounted on steel panels. Models are available to measure various current ranges up to 300 amps and are calibrated for a frequency range of 25-800Hz.

These easy-to-read meters, molded in a black phenolic housing with a large glass viewing window, come in three different sizes of 2-1/2", 3-1/2" and 4-1/2". The 2-1/2" meters are self-contained through 50 amps and the 3-1/2" and 4-1/2" meters are self-contained through 75 amps.

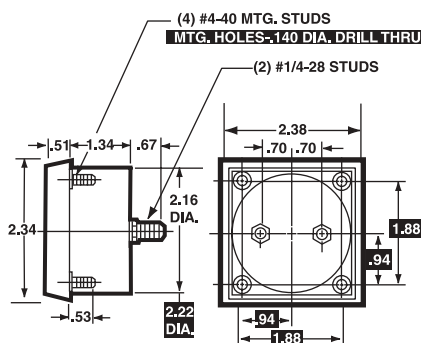


| Model Number | Size   | Meter Movement |
|--------------|--------|----------------|
| 2152         | 2-1/2" | Iron-Vane      |
| 2153         | 3-1/2" | Iron-Vane      |
| 2154         | 4-1/2" | Iron-Vane      |

Higher range readings require an external transformer. Dual range scales can be ordered for the 4-1/2" meter as well as custom dials to fit your specific application. This style meter is ideal for many other electrical functions. See "Function Reference Table."

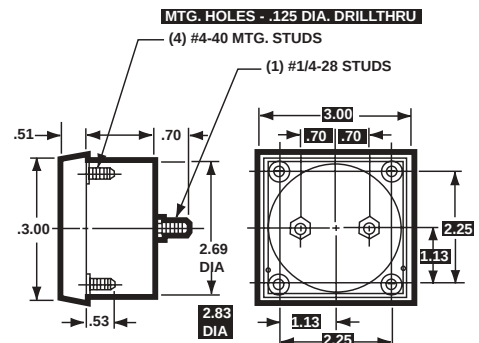
## Dimensions and Compatibility

2-1/2"-Model 2152

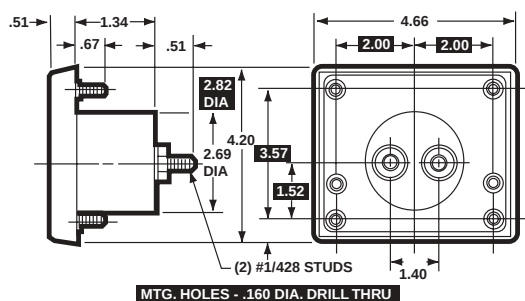


1 = Panel Meter Cut-out Dimensions

3-1/2"-Model 2153



4-1/2"-Model 2154



Compatibility Reference Table

| Manufacturer       | Size / Model |         |         |
|--------------------|--------------|---------|---------|
|                    | 2-1/2"       | 3-1/2"  | 4-1/2"  |
| Crompton Amerint   | 233          | 235     | 237     |
| Hoyt               | 4026         | 4036    | 4046    |
| Modutec S Series   | 2S-          | 3S-     | 4S-     |
| Triplett G Series  | 230-GL       | 330-GL  | 430-GL  |
| Weston 2000 Series | 2024         | 2034    | 2044    |
| Yokogawa Horizon   | 251-210      | 251-310 | 251-410 |

## Specifications

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| <b>Accuracy:</b>              | ±2% F.S.                                                                 |
| <b>Movement:</b>              | Iron-vane, magnetically damped                                           |
| <b>Suspension:</b>            | Pivot and jewel                                                          |
| <b>Tracking:</b>              | ±3%                                                                      |
| <b>Shielding:</b>             | Calibration is unaffected by magnetic panel mounting.                    |
| <b>Response Time:</b>         | 1.5 seconds maximum                                                      |
| <b>Overload (1 sec.):</b>     | 10 times F.S.                                                            |
| <b>Overload (Continuous):</b> | 1.5 times F.S.                                                           |
| <b>Repeatability:</b>         | 2%                                                                       |
| <b>Dial:</b>                  | Each dial arc is calibrated to track the specific type of movement used. |

|                               |                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------|
| <b>Resistance:</b>            | ±15%                                                                                   |
| <b>Operating Temperature:</b> | -4°F to +149°F (-20°C to +65°C)                                                        |
| <b>Case:</b>                  | High density black phenolic                                                            |
| <b>Pointer:</b>               | Knife-edge, with black matte finish                                                    |
| <b>Scale Length:</b>          | Model 2152: 1.86" (47.2mm)<br>Model 2153: 2.48" (63.0mm)<br>Model 2154: 3.68" (93.5mm) |
| <b>Net Weight:</b>            | Model 2152: 5oz (0.14kg)<br>Model 2153: 6oz (0.17kg)<br>Model 2154: 9oz (0.26kg)       |

## Ordering Information

### AC Milliammeters Iron-Vane Type Movement

| Range | Approx. Impedance (ohms) @ 60Hz | Model/Size and Catalog Number |                   |                   |
|-------|---------------------------------|-------------------------------|-------------------|-------------------|
|       |                                 | 2-1/2" Model 2152             | 3-1/2" Model 2153 | 4-1/2" Model 2154 |
| 0-10  | 1,650                           | 17680                         | < >               | 17760             |
| 0-50  | 80                              | 17681                         | 17716             | 17761             |
| 0-100 | 17.2                            | 17682                         | 17717             | 17762             |
| 0-250 | 3.15                            | 17683                         | 17718             | 17763             |
| 0-500 | 0.9                             | 17684                         | 17719             | 17764             |

### AC Current Iron-Vane Type Movement

| Range | Approx. Impedance (ohms) @ 60Hz | Model/Size and Catalog Number |                   |                   |
|-------|---------------------------------|-------------------------------|-------------------|-------------------|
|       |                                 | 2-1/2" Model 2152             | 3-1/2" Model 2153 | 4-1/2" Model 2154 |
| 0-1   | .213                            | 17665                         | 17695             | 17740             |
| 0-1.5 | .105                            | 17666                         | < >               | < >               |
| 0-2   | .065                            | < >                           | 17697             | 17742             |
| 0-3   | .028                            | 17667                         | 17698             | 17743             |
| 0-5   | .008                            | 17668                         | 17699             | 17744             |
| 0-10  | .004                            | 17669                         | 17700             | 17745             |
| 0-10  | .008                            | < >                           | 35081†            | 35085†            |
| 0-15  | .0025                           | 17670                         | 17701             | 17746             |
| 0-25  | .002                            | 17671                         | 17702             | 17747             |
| 0-25  | .008                            | < >                           | 35082†            | 35086†            |
| 0-30  | .0015                           | 17672                         | 17703             | 17748             |
| 0-50  | .001                            | 17673                         | 17704             | 17749             |
| 0-50  | .008                            | < >                           | 35083†            | 35087†            |
| 0-75  | .0002                           | < >                           | 17710             | 17755             |
| 0-75  | .008                            | < >                           | 35084†            | 35088†            |
| 0-80  | .008                            | < >                           | 35036†            | < >               |
| 0-100 | .008                            | 17674†                        | 17706†            | 17751†            |
| 0-150 | .008                            | < >                           | 17707†            | 17752†            |
| 0-200 | .008                            | < >                           | 17708†            | 17753†            |
| 0-300 | .008                            | < >                           | 17709†            | 17754†            |

### AC Dual Range Ammeter/Voltmeter

| Range           | Approx. Impedance (ohms) @ 60Hz | Model/Size and Catalog Number |                   |                   |
|-----------------|---------------------------------|-------------------------------|-------------------|-------------------|
|                 |                                 | 2-1/2" Model 2152             | 3-1/2" Model 2153 | 4-1/2" Model 2154 |
| 0-150V and 0-5A | 15,030 and 0.021                | —                             | 17694             | 17739             |

†These meters are 5 amp meters to be used with an external current transformer. See accessory panel to the right. Additional current transformer ranges can be achieved through wrapping the primary and secondary wires. (See page in the accessory section for details.) < > Available on special order.

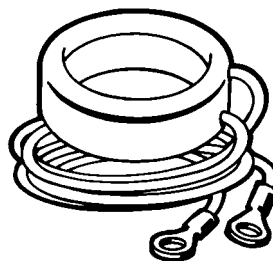
## Function Reference Table

For your convenience, the table below lists Century models for other electrical monitoring functions with page number reference.

| Function   | Section | Page |
|------------|---------|------|
| AC Voltage | E       | 35   |
| DC Current | E       | 55   |
| DC Voltage | E       | 75   |
| Watts      | E       | 107  |

## Accessories

### Donut Current Transformer Ordering Information

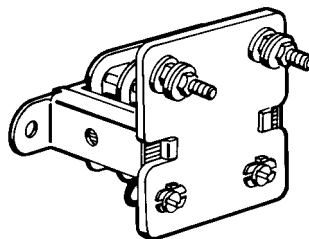


| Range / Amps |           | Catalog Number |
|--------------|-----------|----------------|
| Primary      | Secondary |                |
| 50           | 5         | 01293          |
| 75           | 5         | 01306          |
| 100          | 5         | 01297          |
| 150          | 5         | 01298          |
| 200          | 5         | 01299          |
| 250          | 5         | 01313          |
| 300          | 5         | 01300          |
| 400          | 5         | 01305          |
| 500          | 5         | 01301          |
| 600          | 5         | 02303          |
| 750          | 5         | 02459          |
| 1000         | 5         | 02304          |

A Donut Current Transformer enables this current meter to monitor AC current up to 1000 amps. The Donut (also known as a "Toroid") is placed around one of the legs of the device being monitored, and emits up to a 5 amp signal. Each Donut Transformer, rated at 2 volt amps, comes with 2' long secondary leads.

### Model 186 Current Transformer

### Ordering Information



| Range    | VA   | Catalog Number |
|----------|------|----------------|
| 0-5 amp  | 0.75 | 01312          |
| 0-10 amp | 1.45 | 01314          |
| 0-15 amp | 1.05 | 01315          |
| 0-20 amp | 1.04 | 01316          |
| 0-25 amp | 1.50 | 01317          |
| 0-30 amp | 1.10 | 01318          |
| 0-40 amp | 1.09 | 01319          |
| 0-50 amp | 1.90 | 01321          |
| 0-100 mA | 0.50 | 01295          |
| 0-500 mA | 0.53 | 01304          |

Model 186 Current Transformers easily convert a current signal (up to 50 A) into a 0-10 AC volt signal and transmit the signal over a long distance. This allows remote monitoring of a process or application.

These units can be coupled with a Donut Current Transformer if a high current rating (up to 1000 amps) is to be monitored at a remote location.