

## Century Style Analog Panel Meters



- UL Recognized – File # E91015  
Except for the Wattmeters and Frequency Meters
- Glass window for optimum viewing
- Rugged black plastic case
- Black knife-edge pointer for precision reading

The Specifications & Dimensions are on the last pages

### Ordering Information

| AC Milliammeters, Iron-Vane Movement |                                        |                                 |                      |                      |
|--------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                      |                                        | 2-1/2"<br>Model 2152            | 3-1/2"<br>Model 2153 | 4-1/2"<br>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                |

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## Ordering Information

| AC Ammeters, Iron-Vane Movement                                                                                      |                                        |                                 |                      |                      |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                                                                                                | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                                                                                                      |                                        | 2-1/2"<br>Model 2152            | 3-1/2"<br>Model 2153 | 4-1/2"<br>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 †              |
| † These meters are 5-amp meters to be used with an external current transformer<br><br><> Available on special order |                                        |                                 |                      |                      |

| AC Dual Range Ammeter / Voltmeter, Iron-Vane Movement |                                        |                                 |                      |                      |
|-------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                                 | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                                       |                                        | 2-1/2"<br>Model 2152            | 3-1/2"<br>Model 2153 | 4-1/2"<br>Model 2154 |
| 0-150V<br>0-5A                                        | 15,030<br>0.021                        | -                               | 17694                | 17739                |

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## Ordering Information

| AC Voltmeters, Iron-Vane Movement                                                                                                                                                   |                                        |                                 |                   |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|-------------------|-------------------|
| Range                                                                                                                                                                               | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                   |                   |
|                                                                                                                                                                                     |                                        | 2-1/2" Model 2152               | 3-1/2" Model 2153 | 4-1/2" Model 2154 |
| 0-5                                                                                                                                                                                 | 33                                     | <>                              | 17725             | <>                |
| 0-10                                                                                                                                                                                | 133                                    | 17685                           | 17726             | 17771             |
| 0-15                                                                                                                                                                                | 300                                    | 17686                           | 17727             | 17772             |
| 0-25                                                                                                                                                                                | 833                                    | 17687                           | 17728             | 17773             |
| 0-50                                                                                                                                                                                | 3,333                                  | 17688                           | 17729             | 17774             |
| 0-100                                                                                                                                                                               | 16,666                                 | <>                              | 17730             | 17775             |
| 0-150                                                                                                                                                                               | 25,000                                 | 17690                           | 17731             | 17776             |
| 0-250                                                                                                                                                                               | 41,166                                 | 17691                           | 17732             | 17777             |
| 0-300                                                                                                                                                                               | 50,000                                 | 17692                           | 17733             | 17778             |
| 0-500 †                                                                                                                                                                             | 83,333                                 | <>                              | 17734 †           | 17779 †           |
| † External multipliers, Model 183 are furnished on AC meters having a range of 500 volts or higher. All others have self-contained multipliers<br><br><> Available on special order |                                        |                                 |                   |                   |

| AC Voltage Meters Rectifier Type, Self-shielding Movement |                                       |                                 |                      |                      |
|-----------------------------------------------------------|---------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                                     | Approx.<br>Impedance<br>(Ohms)@ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                                           |                                       | 2-1/2" Model<br>2142            | 3-1/2" Model<br>2143 | 4-1/2" Model<br>2144 |
| 0-5                                                       | 2000<br>Ohms<br>Per<br>Volt           | 17460                           | 17542                | 17640                |
| 0-10                                                      |                                       | <>                              | 17543                | 17641                |
| 0-15                                                      |                                       | <>                              | 17544                | 17642                |
| 0-50                                                      |                                       | <>                              | 17545                | 17643                |
| 0-150                                                     |                                       | 17462                           | 17546                | 17644                |
| 0-300                                                     |                                       | <>                              | <>                   | 17645                |
| <> Available on special order                             |                                       |                                 |                      |                      |

# Century Style Analog Panel Meters

## Ordering Information

| DC Milliammeters, Self-shielding Movement |                                        |                                 |                      |                      |                      |
|-------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|----------------------|
| Range                                     | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |                      |
|                                           |                                        | 1-1/2"<br>Model 2121            | 2-1/2"<br>Model 2122 | 3-1/2"<br>Model 2123 | 4-1/2"<br>Model 2124 |
| 0-1                                       | 43.0                                   | 17825                           | 17430                | 17510                | 17600                |
| 0-3                                       | 2.0                                    | <>                              | 17431                | 17511                | 17601                |
| 0-5                                       | 2.0 (20) †                             | 17826                           | 17432                | 17512                | 17602                |
| 0-10                                      | 10.0 (2.2) †                           | 17827                           | 17433                | 17513                | 17603                |
| 0-15                                      | 6.6 (2.2) †                            | 17828                           | 17434                | <>                   | <>                   |
| 0-20                                      | 5.0                                    | <>                              | <>                   | 17515                | <>                   |
| 0-25                                      | 4.0 (6.0) †                            | 17829                           | 17436                | 17516                | 17606                |
| 0-50                                      | 2.0 (3.0) †                            | 17830                           | 17437                | 17517                | 17607                |
| 0-100                                     | 1.0 (1.5) †                            | 17832                           | 17438                | 17518                | 17608                |
| 0-150                                     | .66 (1.0) †                            | 17833                           | 17439                | 17519                | 17609                |
| 0-200                                     | .50 (.75) †                            | 17834                           | 17440                | 17520                | 17610                |
| 0-250                                     | .40 (.60) †                            | 17835                           | 17441                | 17521                | 17611                |
| 0-300                                     | .33 (.50) †                            | 17836                           | 17442                | 17522                | 17612                |
| 0-500                                     | .20 (.30) †                            | 17837                           | 17443                | 17523                | 17613                |
| 0-750                                     | .13                                    | <>                              | <>                   | 17524                | 17614                |
| 0-1000                                    | .05                                    | <>                              | 17444                | <>                   | 17615                |
| † Resistances of Model 2121 shown in ( )  |                                        |                                 |                      |                      |                      |
| <> Available on special order             |                                        |                                 |                      |                      |                      |

| DC Microammeters, Self-shielding Movement |                                        |                                 |                      |                      |                      |
|-------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|----------------------|
| Range                                     | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |                      |
|                                           |                                        | 1-1/2"<br>Model 2121            | 2-1/2"<br>Model 2122 | 3-1/2"<br>Model 2123 | 4-1/2"<br>Model 2124 |
| 0-50                                      | 1800 (5500) †                          | 17815                           | 17418                | 17499                | 17589                |
| 0-100                                     | 1800                                   | 17816                           | 17420                | 17501                | 17591                |
| 0-200                                     | 1100                                   | 17818                           | 17422                | 17503                | 17593                |
| 0-500                                     | 90 (190) †                             | 17819                           | 17424                | 17505                | 17595                |
| 25-0-25                                   | 1800 (5500) †                          | 17820                           | 35063                | 17506                | 17596                |
| 50-0-50                                   | 1800                                   | 17821                           | 17425                | 17507                | 17597                |
| 100-0-100                                 | 1100                                   | 17822                           | 17426                | 17508                | 17598                |
| 500-0-500                                 | 43                                     | 17823                           | 17427                | 17509                | 17599                |
| † Resistances of Model 2121 shown in ( )  |                                        |                                 |                      |                      |                      |
| <> Available on special order             |                                        |                                 |                      |                      |                      |

# Century Style Analog Panel Meters

## Ordering Information

| Taut Band DC Microammeters, Self-shielding Movement |                                  |                                 |                    |                    |
|-----------------------------------------------------|----------------------------------|---------------------------------|--------------------|--------------------|
| Range                                               | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                    |                    |
|                                                     |                                  | 2-1/2" Model 2122T              | 3-1/2" Model 2123T | 4-1/2" Model 2124T |
| 0-10                                                | 4900                             | 17415                           | 17496              | 17586              |
| 0-15                                                | 1960                             | 17416                           | 17497              | 17587              |
| 0-25                                                | 1960                             | 17417                           | 17498              | 17588              |
| 0-50                                                | 960                              | 17419                           | 17500              | 17590              |
| 0-100                                               | 500                              | 17421                           | 17502              | 17592              |
| 0-200                                               | 234                              | 17423                           | <>                 | 17594              |
| <> Available on special order                       |                                  |                                 |                    |                    |

| DC Ammeters, Self-shielding Movement                                                                                                                                                                                                                                                                           |                                  |                                 |                   |                   |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-------------------|-------------------|-------------------|
| Range                                                                                                                                                                                                                                                                                                          | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                   |                   |                   |
|                                                                                                                                                                                                                                                                                                                |                                  | 1-1/2" Model 2121               | 2-1/2" Model 2122 | 3-1/2" Model 2123 | 4-1/2" Model 2124 |
| 0-1                                                                                                                                                                                                                                                                                                            | .050                             | 17800                           | 17400             | 17475             | 17565             |
| 0-1.5                                                                                                                                                                                                                                                                                                          | .003                             | <>                              | 17401             | 17476             | <>                |
| 0-2                                                                                                                                                                                                                                                                                                            | .025                             | 17801                           | 17402             | 17477             | 17567             |
| 0-3                                                                                                                                                                                                                                                                                                            | .0166                            | 17802                           | 17403             | 17478             | 17568             |
| 0-5                                                                                                                                                                                                                                                                                                            | .010                             | 17803                           | 17404             | 17479             | 17569             |
| 0-10                                                                                                                                                                                                                                                                                                           | .005                             | 17805                           | 17405             | 17480             | 17570             |
| 0-15                                                                                                                                                                                                                                                                                                           | .0033                            | 17806 †                         | 17406             | 17481             | 17571             |
| 0-25                                                                                                                                                                                                                                                                                                           | .0020                            | 17807 †                         | 17407             | 17482             | 17572             |
| 0-30                                                                                                                                                                                                                                                                                                           | .0017                            | <>                              | 17408             | 17483             | 17573             |
| 0-50                                                                                                                                                                                                                                                                                                           | .001                             | 17808 †                         | 17409             | 17484             | 17574             |
| 0-100                                                                                                                                                                                                                                                                                                          | 10.0                             | <>                              | 17410 †           | 17485 †           | 17575 †           |
| 0-150                                                                                                                                                                                                                                                                                                          | 10.0                             | <>                              | <>                | 17486 †           | 17576 †           |
| 0-200                                                                                                                                                                                                                                                                                                          | 10.0                             | <>                              | 17412 †           | 17487 †           | 17577 †           |
| 0-300                                                                                                                                                                                                                                                                                                          | 10.0                             | <>                              | -                 | 17488 †           | 17578 †           |
| 0-500                                                                                                                                                                                                                                                                                                          | 10.0                             | <>                              | -                 | 17489 †           | 17579 †           |
| 2-0-2                                                                                                                                                                                                                                                                                                          | .025                             | <>                              | -                 | 35064             | -                 |
| 5-0-5                                                                                                                                                                                                                                                                                                          | .010                             | <>                              | -                 | 35072             | -                 |
| 15-0-15                                                                                                                                                                                                                                                                                                        | .0033                            | <>                              | -                 | 17490             | -                 |
| 30-0-30                                                                                                                                                                                                                                                                                                        | .0017                            | <>                              | -                 | 17491             | -                 |
| † 1-1/2" DC current meters are self-contained through 10 amps; higher ranges are supplied as 50mV meters and require an external shunt;<br>† 2-1/2", 3-1/2" and 4-1/2" meters are self-contained through 50 amps; higher ranges are 50mV and require use of an external shunt<br><> Available on special order |                                  |                                 |                   |                   |                   |

# Century Style Analog Panel Meters

## Ordering Information

| Wattmeters / Dynamometer Type, Not  |         |       |                                 |                   |
|----------------------------------------------------------------------------------------------------------------------|---------|-------|---------------------------------|-------------------|
| Range                                                                                                                | Maximum |       | Model / Size and Catalog Number |                   |
|                                                                                                                      | Volts   | Amps  | 3-1/2" Model 2173               | 4-1/2" Model 2174 |
| 0-10                                                                                                                 | 150     | .175  | 17875 *                         | 17890 *           |
| 0-20                                                                                                                 | 150     | .400  | 17876                           | 17891 *           |
| 0-30                                                                                                                 | 150     | 0.650 | 17877 *                         | 17892 *           |
| 0-30                                                                                                                 | 300     | 0.300 | 18879 *                         | 17894 *           |
| 0-50                                                                                                                 | 300     | 0.500 | 17880 *                         | 17895 *           |
| 0-75                                                                                                                 | 150     | 1.0   | 17881                           | 17896             |
| 0-150                                                                                                                | 150     | 2.0   | 17882                           | 17897             |
| 0-300                                                                                                                | 150     | 4.0   | 17883                           | 17898             |
| 0-600                                                                                                                | 300     | 4.0   | 17884                           | 17899             |
| 0-750                                                                                                                | 150     | 10.0  | 17885                           | 17900             |
| 0-1500                                                                                                               | 300     | 10.0  | 17886                           | 17901             |
| 0-3000                                                                                                               | 300     | 20.0  | 17887                           | 17902             |
| * Compensated wattmeters: calibrated for either magnetic or non-magnetic panels and for a frequency of 25-125Hz      |         |       |                                 |                   |

| Percent Motor Load Meters, Self-shielding Movement                                                                                                                                 |         |                  |                                 |                  |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|---------------------------------|------------------|-------------|
| Type                                                                                                                                                                               | Maximum |                  | Model / Size and Catalog Number |                  |             |
|                                                                                                                                                                                    | Rating  | 3-1/2" Model No. | Catalog No.                     | 4-1/2" Model No. | Catalog No. |
| DC (Note 1)                                                                                                                                                                        | 30 mV   | 2123             | 17564                           | 2124             | 17637       |
| AC (Note 2)                                                                                                                                                                        | 5 amps  | 2153             | 17711                           | 2154             | 17756       |
| <p>1. These DC meters require an external shunt and an 8 to 10Ω 2W wire-wound potentiometer (customer supplied)</p> <p>2. These AC meters require use of a current transformer</p> |         |                  |                                 |                  |             |

# Century Style Analog Panel Meters

## Ordering Information

| Frequency Meters, Self-shielding Movement, Not  |                                        |                                 |                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                                                                                                            | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                                                                                                                  |                                        | 2-1/2"<br>Model 2182            | 3-1/2"<br>Model 2183 | 4-1/2"<br>Model 2184 |
| 45-55 Hz                                                                                                                         | 120V                                   | 35118                           | 35124                | 35130                |
| 55-65 Hz                                                                                                                         | 120V                                   | 35120                           | 35126                | 35132                |
| 380-420 Hz                                                                                                                       | 120V                                   | 35122                           | 35128                | 35134                |
| 45-55 Hz                                                                                                                         | 240V                                   | 35119                           | 35125                | 35131                |
| 55-65 Hz                                                                                                                         | 240V                                   | 35121                           | 35127                | 35133                |
| 380-420 Hz                                                                                                                       | 240V                                   | 35123                           | 35129                | 35135                |

| DC Millivoltmeters, Self-shielding Movement |                                        |                                 |                      |                      |
|---------------------------------------------|----------------------------------------|---------------------------------|----------------------|----------------------|
| Range                                       | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |                      |
|                                             |                                        | 2-1/2"<br>Model 2122            | 3-1/2"<br>Model 2123 | 4-1/2"<br>Model 2124 |
| 0-50                                        | 10.0                                   | 17472                           | 17540                | 17636                |
| 50-0-50                                     | 20.0                                   | <>                              | 17541                | 17635                |
| <> Available on special order               |                                        |                                 |                      |                      |

# Century Style Analog Panel Meters

## Ordering Information

| DC Voltage Meters, Self-shielding Movement                                                                                                                                                                                                       |                                       |                      |                                 |                      |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------|---------------------------------|----------------------|----------------------|
| Range                                                                                                                                                                                                                                            | Approx.<br>Impedance<br>(Ohms) @60 Hz |                      | Model / Size and Catalog Number |                      |                      |
|                                                                                                                                                                                                                                                  |                                       | 1-1/2"<br>Model 2121 | 2-1/2"<br>Model 2122            | 3-1/2"<br>Model 2123 | 4-1/2"<br>Model 2124 |
| 0-5                                                                                                                                                                                                                                              |                                       | 17840                | 17445                           | 17525                | 17618                |
| 0-8                                                                                                                                                                                                                                              |                                       | <>                   | <>                              | <>                   | 17619                |
| 0-10                                                                                                                                                                                                                                             |                                       | 17842                | 17446                           | 17527                | 17620                |
| 0-15                                                                                                                                                                                                                                             |                                       | 17843                | 17447                           | 17528                | 17621                |
| 0-25                                                                                                                                                                                                                                             |                                       | 17844                | 17448                           | 17529                | 17622                |
| 0-30                                                                                                                                                                                                                                             |                                       | 17845                | 17449                           | 17530                | 17623                |
| 0-50                                                                                                                                                                                                                                             | 1000<br>Ohms<br>Per Volt              | 17846                | 17450                           | 17531                | 17624                |
| 0-100                                                                                                                                                                                                                                            |                                       | 17848                | 17451                           | 17532                | 17625                |
| 0-150                                                                                                                                                                                                                                            |                                       | 17849                | 17452                           | 17533                | 17626                |
| 0-200                                                                                                                                                                                                                                            |                                       | <>                   | <>                              | 17534                | 17627                |
| 0-250                                                                                                                                                                                                                                            |                                       | <>                   | <>                              | 17535                | <>                   |
| 0-300                                                                                                                                                                                                                                            |                                       | -                    | 17455                           | 17536                | 17629                |
| 0-300                                                                                                                                                                                                                                            | 2000<br>Ohms<br>Per Volt              | 17850                | <>                              | <>                   | <>                   |
| 0-500                                                                                                                                                                                                                                            |                                       | 17851 †              | 17456                           | 17537                | 17630                |
| 0-750                                                                                                                                                                                                                                            |                                       | <>                   | <>                              | 17538                | 17631                |
| 0-1000                                                                                                                                                                                                                                           |                                       | <>                   | 17458 †                         | 17539 †              | 17632 †              |
| † External multipliers (Model 183) are furnished on 1-1/2" DC meters 500 volts or higher;<br>on 2-1/2" DC meters 750 volts or higher;<br>and on 3-1/2" and 4-1/2" DC meters 1,000 volts or higher.<br>All others have self-contained multipliers |                                       |                      |                                 |                      |                      |
| <> Available on special order                                                                                                                                                                                                                    |                                       |                      |                                 |                      |                      |

| 4-20 DCmA Process Meters |        |       |                |
|--------------------------|--------|-------|----------------|
| Size                     | Scale  | Model | Catalog Number |
| 3-1/2"                   | 0-100% | 2123  | 35027          |
| 4-1/2"                   | 0-100% | 2124  | 35028          |

## Century Style Analog Panel Meters

| Frequency Meter Specifications |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Accuracy                       | 45-55Hz $\pm$ 0.3Hz (120V-240V)                                         |
|                                | 55-65Hz $\pm$ 0.3Hz (120V-240V)                                         |
|                                | 380-420Hz $\pm$ 1.2Hz (120V-240V)                                       |
| Movement                       | Small core magnet, self-shielding                                       |
| Suspension                     | Pivot and jewel                                                         |
| Tracking                       | $\pm$ 3%                                                                |
| Shielding                      | Calibration is unaffected by magnetic panel mounting                    |
| Center Scale Value             | 50/60/400Hz                                                             |
| Power Consumption              | 1.6VA                                                                   |
| Max. Input Voltage (10 sec)    | 150, 120V normal; 280, 240V normal                                      |
| Dial                           | Each dial arc is calibrated to track the specific type of movement used |
| Operating Temperature          | -4°F to +149°F (-20°C to +65°C)                                         |
| Case                           | High density black plastic                                              |
| Pointer                        | Knife-edge, with black matte finish                                     |
| Scale Length                   | Model 2182: 1.88" (47.2mm)                                              |
|                                | Model 2183: 2.48" (63.0mm)                                              |
|                                | Model 2184: 3.68" (93.5mm)                                              |
| Net Weight                     | Model 2182: 5oz (0.14kg)                                                |
|                                | Model 2183: 6oz (0.17kg)                                                |
|                                | Model 2184: 9oz (0.26kg)                                                |
| Warm-up Time                   | 5 minutes                                                               |

| Watt Meter Specifications |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Accuracy                  | $\pm$ 2% F.S.; Compensated Meters: $\pm$ 3% F.S.                        |
| Movement                  | Dynamometer                                                             |
| Suspension                | Pivot and jewel                                                         |
| Tracking                  | $\pm$ 3%                                                                |
| Shielding                 | Calibration is unaffected by magnetic panel mounting                    |
| Response Time             | 1.5 seconds maximum                                                     |
| Overload (1 sec.)         | 10 times F.S.                                                           |
| Overload (Continuous)     | 1.5 times F.S.                                                          |
| Repeatability             | 2%                                                                      |
| Dial                      | Each dial arc is calibrated to track the specific type of movement used |
| Resistance                | $\pm$ 15% of meter impedance                                            |
| Operating Temperature     | -4°F to +149°F (-20°C to +65°C)                                         |
| Case                      | High density black plastic                                              |
| Pointer                   | Knife-edge, with black matte finish                                     |
| Scale Length              | Model 2173: 2.48" (63.0mm)                                              |
|                           | Model 2174: 3.68" (93.5mm)                                              |
| Net Weight                | Model 2173: 9oz (0.26kg)                                                |
|                           | Model 2174: 13oz (0.37kg)                                               |

# Century Style Analog Panel Meters

| Specifications for Other Meters |                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Accuracy                        | ±2% F.S. Iron Vane, ±3% F.S. Rectified                                                                                            |
| Movement                        | Models 2152, 2153, 2154: Iron-vane, magnetically damped.<br>2121 and 2121T: small core magnet, all others Annular, self-shielding |
| Suspension                      | Pivot and jewel except for "T" models which have taut band movement                                                               |
| Tracking                        | ±3%                                                                                                                               |
| Shielding                       | Calibration is unaffected by magnetic panel mounting                                                                              |
| Response Time                   | 1.5 seconds maximum                                                                                                               |
| Overload (1 sec.)               | 10 times F.S.                                                                                                                     |
| Overload (Continuous)           | 1.5 times F.S.                                                                                                                    |
| Repeatability                   | 2% pivot and jewel, 0.5% taut band                                                                                                |
| Dial                            | Each dial arc is calibrated to track the specific type of movement used                                                           |
| Resistance                      | ±15% of meter impedance                                                                                                           |
| Operating Temperature           | -4°F to +149°F (-20°C to +65°C)                                                                                                   |
| Case                            | High density black plastic                                                                                                        |
| Pointer                         | Knife-edge, with black matte finish                                                                                               |
| Scale Length                    | Model 2121 & 2121T: 1.25" (31.7mm)                                                                                                |
|                                 | Model 2152: 1.86" (47.2mm)                                                                                                        |
|                                 | Model 2122, 2122T, 2142: 2.07" (52.7mm)                                                                                           |
|                                 | Model 2153: 2.48" (63.0mm)                                                                                                        |
|                                 | Model 2123, 2123T, 2143: 2.75" (69.8mm)                                                                                           |
|                                 | Model 2154: 3.68" (93.5mm)                                                                                                        |
|                                 | Model 2124, 2124T, 2144: 4.09" (103.9mm)                                                                                          |
|                                 |                                                                                                                                   |
| Net Weight                      | Model 2121 & 2121T: 2oz (0.06kg)                                                                                                  |
|                                 | Model 2152: 5oz (0.14kg)                                                                                                          |
|                                 | Model 2153: 6oz (0.17kg)                                                                                                          |
|                                 | Model 2122, 2122T, 2142: 7oz (0.20kg)                                                                                             |
|                                 | Model 2123, 2123T, 2143: 8oz (0.23kg)                                                                                             |
|                                 | Model 2154: 9oz (0.26kg)                                                                                                          |
|                                 | Model 2124, 2124T, 2144: 11oz (0.31kg)                                                                                            |



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