

# Rugged Seal Style Analog Panel Meters



- *Rugged metal case for rigorous environments*
- *Splash-proof and sealed against moisture, dust and dirt*
- *Calibration not affected by steel panel mounting*
- *O-Ring sealed zero adjust and electrical terminals*

For Specifications and Dimensions see last page

## Ordering Information

| AC Microammeter Rectifier Type,<br>Self-Shielding Movement |                                        |                                 |                      |
|------------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|
| Range                                                      | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |
|                                                            |                                        | 3-1/2"<br>Model 3343            | 4-1/2"<br>Model 3344 |
| 0-100                                                      | 4,000                                  | <>                              | 16185                |
| <> Available on special order                              |                                        |                                 |                      |

| AC Ammeter Rectifier Type,<br>Self-Shielding Movement |                                         |                                 |                      |
|-------------------------------------------------------|-----------------------------------------|---------------------------------|----------------------|
| Range                                                 | Internal<br>Transformer<br>Burden in VA | Model / Size and Catalog Number |                      |
|                                                       |                                         | 3-1/2"<br>Model 3343            | 4-1/2"<br>Model 3344 |
| 0-5                                                   | 0.5 VA max.                             | 16080                           | 16175                |

| AC Milliammeter Rectifier Type,<br>Self-Shielding Movement |                                        |                                 |                      |
|------------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|
| Range                                                      | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |
|                                                            |                                        | 3-1/2"<br>Model 3343            | 4-1/2"<br>Model 3344 |
| 0-1                                                        | 600                                    | 16085                           | 16180                |

| AC Voltmeters Rectifier Type,<br>Self-Shielding Movement |                                        |                                 |                      |
|----------------------------------------------------------|----------------------------------------|---------------------------------|----------------------|
| Range                                                    | Approx.<br>Impedance<br>(Ohms) @ 60 Hz | Model / Size and Catalog Number |                      |
|                                                          |                                        | 3-1/2"<br>Model 3343            | 4-1/2"<br>Model 3344 |
| 0-150                                                    | 1,000 Ohms<br>Per Volt                 | 16065                           | 16160                |
| 0-300                                                    |                                        | 16070                           | 16165                |



# Rugged Seal Style Analog Panel Meters

## Ordering Information

| DC Microammeters, Self-Shielding Movement |                          |                                 |                   |
|-------------------------------------------|--------------------------|---------------------------------|-------------------|
| Range                                     | Approx. Impedance (Ohms) | Model / Size and Catalog Number |                   |
|                                           |                          | 3-1/2" Model 3323               | 4-1/2" Model 3324 |
| 0-50                                      | 3,000                    | 16055                           | 16150             |
| 0-100                                     | 1,450                    | 16060                           | 16155             |

| DC Millivoltmeters, Self-Shielding Movement |                          |                                 |                   |
|---------------------------------------------|--------------------------|---------------------------------|-------------------|
| Range                                       | Approx. Impedance (Ohms) | Model / Size and Catalog Number |                   |
|                                             |                          | 3-1/2" Model 3323               | 4-1/2" Model 3324 |
| 0-50                                        | 10                       | 16062                           | 16157             |

| DC Milliammeters, Self-Shielding Movement |                          |                                 |                   |
|-------------------------------------------|--------------------------|---------------------------------|-------------------|
| Range                                     | Approx. Impedance (Ohms) | Model / Size and Catalog Number |                   |
|                                           |                          | 3-1/2" Model 3323               | 4-1/2" Model 3324 |
| 0-1                                       | 80                       | 16045                           | 16140             |

| DC Voltmeters, Self-Shielding Movement |                          |                                 |                   |
|----------------------------------------|--------------------------|---------------------------------|-------------------|
| Range                                  | Approx. Impedance (Ohms) | Model / Size and Catalog Number |                   |
|                                        |                          | 3-1/2" Model 3323               | 4-1/2" Model 3324 |
| 0-1.5                                  | 1,000 Ohms Per Volt      | 16000                           | <>                |
| 0-10                                   |                          | 16005                           | <>                |
| 0-15                                   |                          | 16010                           | <>                |
| 0-25                                   |                          | 16015                           | <>                |
| 0-50                                   |                          | 16020                           | <>                |
| 0-100                                  |                          | 16025                           | <>                |
| 0-500                                  |                          | 16030                           | <>                |
| <> Available on special order          |                          |                                 |                   |

| DC Ammeters, Self-Shielding Movement |                          |                                 |                   |
|--------------------------------------|--------------------------|---------------------------------|-------------------|
| Range                                | Internal Loss in mV      | Model / Size and Catalog Number |                   |
|                                      |                          | 3-1/2" Model 3323               | 4-1/2" Model 3324 |
| 0-5                                  | Internal Shunt 75mV max. | 16035                           | <>                |
| 0-10                                 |                          | 16040                           | <>                |

# Rugged Seal Style Analog Panel Meters

| Specifications               |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| <b>Accuracy</b>              | ± 3% F.S. AC Rectified, ± 2% for DC or Annular                                             |
| <b>Movement</b>              | Annular rectifier, self-shielding                                                          |
| <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>                  | Sharp clear scale. Each dial arc is calibrated to track the specific type of movement used |
| <b>Case</b>                  | Metal shielded cover with black matte finish                                               |
| <b>Resistance</b>            | ± 15% of meter impedance                                                                   |
| <b>Operating Temperature</b> | -4°F to +149°F (-20°C to +65°C)                                                            |
| <b>Pointer</b>               | Knife-edge with black matte finish                                                         |
| <b>Scale Length</b>          | Model 3323, 3343: 2.74" (70.0mm)<br>Model 3324, 3344: 4.05" (103.0mm)                      |
| <b>Net Weight</b>            | Model 3323, 3343: 12oz. (0.340kg)<br>Model 3324, 3344: 17oz. (0.48kg)                      |

## Dimensions

