

# Rectangular Style Analog Panel Meters

- UL Recognized - File # E91015  
Except for the Wattmeters & Frequency Meters
- Plastic case with Glass Window
- Calibration not affected when mounted on steel
- Three popular sizes:  
2-1/2", 3-1/2", 4-1/2"



For Specifications and Dimensions see the last pages

## Ordering Information

| Frequency, Self-Shielding Movement |         | Not  |                    |                    |
|------------------------------------|---------|------------------------------------------------------------------------------------------|--------------------|--------------------|
| Range                              | Voltage | Model / Size and Catalog Number                                                          |                    |                    |
|                                    |         | 2-1/2"<br>Model 187                                                                      | 3-1/2"<br>Model 87 | 4-1/2"<br>Model 89 |
| 45-55 Hz                           | 120V    | 35136                                                                                    | 35142              | 35148              |
| 55-65 Hz                           | 120V    | 35138                                                                                    | 35144              | 35150              |
| 380-420 Hz                         | 120V    | 35140                                                                                    | 35146              | 35152              |
| 45-55 Hz                           | 240V    | 35137                                                                                    | 35143              | 35149              |
| 55-65 Hz                           | 240V    | 35139                                                                                    | 35145              | 35151              |
| 380-420 Hz                         | 240V    | 35141                                                                                    | 35147              | 35153              |



# Rectangular Style Analog Panel Meters

## Ordering Information

| 4-20 mA Process Meters, Dial Indicates 0-100% |             |       |                          |             |
|-----------------------------------------------|-------------|-------|--------------------------|-------------|
| Size                                          | Style       | Model | Approx. Impedance (Ohms) | Catalog No. |
| 3-1/2"                                        | Rectangular | 27    | 5.0                      | 35023       |
| 4-1/2"                                        | Rectangular | 29    | 5.0                      | 35024       |

| Wattmeters, Self Shielding Movement |         |      | Not  |                    |                    |
|-------------------------------------|---------|------|-----------------------------------------------------------------------------------------|--------------------|--------------------|
| Range                               | Maximum |      | Model / Size and Catalog Number                                                         |                    |                    |
|                                     | Volts   | Amps | 2-1/2"<br>Model 177                                                                     | 3-1/2"<br>Model 77 | 4-1/2"<br>Model 79 |
| 0-20                                | 150     | .400 | < >                                                                                     | < >                | 10714              |
| 0-75                                | 150     | 1.0  | 10860                                                                                   | 10650              | 10720              |
| 0-150                               | 150     | 2.0  | < >                                                                                     | < >                | 10730              |
| 0-300                               | 150     | 4.0  | < >                                                                                     | < >                | 10740              |
| 0-600                               | 300     | 4.0  | < >                                                                                     | 10680              | 10750              |
| 0-750                               | 150     | 10.0 | 10900                                                                                   | 10690              | 10760              |
| 0-1500                              | 300     | 10.0 | 10910                                                                                   | 10700              | 10770              |
| 0-3000                              | 300     | 20.0 | 10920                                                                                   | 10710              | 10780              |

< > Available on special order

## Ordering Information

| <b>DC Voltmeters, Self-Shielding Movement</b>                                                                                                    |                                  |                                 |                 |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                                                                                                            | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                                                                                                  |                                  | 2-1/2" Model 127                | 3-1/2" Model 27 | 4-1/2" Model 29 |
| 0-1.5                                                                                                                                            | 1000 Ohms per Volt               | 09020                           | 07290           | 07620           |
| 0-3                                                                                                                                              |                                  | 09030                           | 07300           | 07630           |
| 0-5                                                                                                                                              |                                  | 09040                           | 07310           | 07640           |
| 0-8                                                                                                                                              |                                  | 09050                           | < >             | 07650           |
| 0-10                                                                                                                                             |                                  | 09060                           | 07330           | 07660           |
| 0-15                                                                                                                                             |                                  | 09080                           | 07350           | 07670           |
| 0-25                                                                                                                                             |                                  | 09090                           | 07360           | 07680           |
| 0-30                                                                                                                                             |                                  | 09100                           | 07370           | 07690           |
| 0-50                                                                                                                                             |                                  | 09110                           | 07380           | 07700           |
| 0-100                                                                                                                                            |                                  | 09130                           | 07400           | 07710           |
| 0-150                                                                                                                                            |                                  | 09140                           | 07410           | 07720           |
| 0-200                                                                                                                                            |                                  | 09160                           | 07430           | 07730           |
| 0-250                                                                                                                                            |                                  | 09170                           | 07440           | 07740           |
| 0-300                                                                                                                                            |                                  | 09180                           | 07450           | 07750           |
| 0-500                                                                                                                                            |                                  | 2000 Ohms per Volt              | 09200           | 07470           |
| 0-750                                                                                                                                            | < >                              |                                 | 07490           | 07770           |
| 0-1000                                                                                                                                           | < >                              |                                 | 07495 *         | 07780 *         |
| 0-1500                                                                                                                                           | < >                              |                                 | 07520 *         | 07790 *         |
| 0-2000                                                                                                                                           | 09225 *                          |                                 | 07530 *         | 07800 *         |
| 0-2500                                                                                                                                           | < >                              |                                 | 07550 *         | 07810 *         |
| 0-3000                                                                                                                                           | < >                              |                                 | 07560 *         | 07820 *         |
| 0-4000                                                                                                                                           | < >                              |                                 | < >             | 07830 *         |
| 0-5000                                                                                                                                           | < >                              |                                 | 07600 *         | 07840 *         |
| < > Available on special order                                                                                                                   |                                  |                                 |                 |                 |
| * External multipliers (Model 183) are furnished on 2-1/2" DC meters 750 volts or higher and on 3-1/2" and 4-1/2" DC Meters 1000 volts or higher |                                  |                                 |                 |                 |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>DC Millivoltmeters, Self-Shielding Movement</b> |                                  |                                 |                 |                 |
|----------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                              | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                    |                                  | 2-1/2" Model 127                | 3-1/2" Model 27 | 4-1/2" Model 29 |
| 0-50                                               | 10.0                             | 06990                           | 06930           | 06950           |
| 0-100                                              | 20.0                             | < >                             | 06940           | 06960           |
| < > Available on special order                     |                                  |                                 |                 |                 |

| <b>DC Taut-Band Microammeters, Self-Shielding Movement</b> |                                  |                                 |                  |                  |
|------------------------------------------------------------|----------------------------------|---------------------------------|------------------|------------------|
| Range                                                      | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                  |                  |
|                                                            |                                  | 2-1/2" Model 127T               | 3-1/2" Model 27T | 4-1/2" Model 29T |
| 0-10                                                       | 4900                             | 04246                           | 03839            | 03939            |
| 0-15                                                       | 1960                             | 04248                           | 03841            | 03941            |
| 0-25                                                       | 1960                             | 04251                           | 03851            | 03951            |
| 0-50                                                       | 960                              | 04261                           | 03961            | 03961            |
| 0-100                                                      | 500                              | < >                             | 03871            | 03971            |
| < > Available on special order                             |                                  |                                 |                  |                  |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>DC Microammeters, Self-Shielding Movement</b> |                                  |                                 |                 |                 |
|--------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                            | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                  |                                  | 2-1/2" Model 127                | 3-1/2" Model 27 | 4-1/2" Model 29 |
| 0-50                                             | 1800                             | 04260                           | 03860           | 03960           |
| 0-100                                            | 1800                             | 04270                           | 03870           | 03970           |
| 0-200                                            | 1100                             | 04280                           | 03880           | 03980           |
| 0-500                                            | 90                               | < >                             | 03890           | 03990           |
| 25-0-25                                          | 1800                             | 04243                           | 03900           | 04000           |
| 50-0-50                                          | 1800                             | 04245                           | 03910           | 04010           |
| 100-0-100                                        | 1100                             | 04247                           | 03920           | 04020           |
| 500-0-500                                        | 43                               | < >                             | 03930           | 04030           |
| < > Available on special order                   |                                  |                                 |                 |                 |

| <b>DC Milliammeters, Self-Shielding Movement</b> |                                  |                                 |                 |                 |
|--------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                            | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                  |                                  | 2-1/2" Model 127                | 3-1/2" Model 27 | 4-1/2" Model 29 |
| 0-1                                              | 43.0                             | 05760                           | 04790           | 05070           |
| 0-1.5                                            | 43.0                             | < >                             | 04810           | 05080           |
| 0-3                                              | 2.0                              | 05790                           | 04820           | 05090           |
| 0-5                                              | 2.0                              | 05800                           | 04830           | 05100           |
| 0-10                                             | 10.0                             | 05810                           | 04840           | 05110           |
| 0-15                                             | 6.6                              | 05830                           | 04860           | 05120           |
| 0-20                                             | 5.0                              | < >                             | 04880           | 05130           |
| 0-25                                             | 4.0                              | 05860                           | 04890           | 05140           |
| 0-50                                             | 2.0                              | 05880                           | 04910           | 05150           |
| 0-75                                             | 1.3                              | < >                             | < >             | < >             |
| 0-100                                            | 1.0                              | 05910                           | 04940           | 05170           |
| 0-150                                            | .66                              | 05930                           | 04960           | 05180           |
| 0-200                                            | .5                               | 05940                           | 04980           | 05190           |
| 0-250                                            | .4                               | < >                             | 05000           | 05200           |
| 0-300                                            | .33                              | < >                             | 05010           | 05210           |
| 0-500                                            | .2                               | 05990                           | 05030           | 05220           |
| 0-750                                            | .13                              | < >                             | 05050           | 05230           |
| 0-1000                                           | .05                              | 06020                           | 05060           | 05240           |
| < > Available on special order                   |                                  |                                 |                 |                 |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>DC Ammeters, Self-Shielding Movement</b>                                                                  |                                  |                                 |                 |                 |
|--------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                                                                        | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                                                              |                                  | 2-1/2" Model 127                | 3-1/2" Model 27 | 4-1/2" Model 29 |
| 0-1                                                                                                          | .050                             | 01680                           | 00230           | 00450           |
| 0-1.5                                                                                                        | .033                             | 01690                           | 00240           | 00460           |
| 0-2                                                                                                          | .025                             | 01709                           | 00250           | 00470           |
| 0-3                                                                                                          | .0166                            | 01710                           | 00260           | 00480           |
| 0-5                                                                                                          | .010                             | 01720                           | 00270           | 00490           |
| 0-10                                                                                                         | .005                             | 01730                           | 00280           | 00500           |
| 0-15                                                                                                         | .0033                            | 01740                           | 00290           | 00512           |
| 0-25                                                                                                         | .0020                            | 01750                           | 00300           | 00520           |
| 0-30                                                                                                         | .0017                            | 01760                           | 00310           | 00530           |
| 0-50                                                                                                         | .001                             | 01770                           | 00320           | 00540           |
| 0-75                                                                                                         | 10.0                             | 01780 †                         | 00330 †         | 00550 †         |
| 0-100                                                                                                        | 10.0                             | 01790 †                         | 00340 †         | 00560 †         |
| 0-150                                                                                                        | 10.0                             | 01800 †                         | 00350 †         | 00570 †         |
| 0-200                                                                                                        | 10.0                             | 01810 †                         | < >             | 00580 †         |
| 0-250                                                                                                        | 10.0                             | < >                             | < >             | 00590 †         |
| 0-300                                                                                                        | 10.0                             | < >                             | 00380 †         | 00600 †         |
| 0-500                                                                                                        | 10.0                             | < >                             | 00390 †         | 00610 †         |
| 0-750                                                                                                        | 10.0                             | < >                             | 00400 †         | 00620 †         |
| 0-1000                                                                                                       | 10.0                             | < >                             | 00410 †         | 00630 †         |
| 15-0-15                                                                                                      | .0033                            | < >                             | < >             | 00640           |
| 30-0-30                                                                                                      | .0017                            | 01880                           | 00430           | 00650           |
| 50-0-50                                                                                                      | .001                             | 01890                           | 00440           | 00660           |
| <b>&lt; &gt; Available on special order</b>                                                                  |                                  |                                 |                 |                 |
| † DC current meters are self-contained for ranges up to and including 50 amperes.                            |                                  |                                 |                 |                 |
| Higher range DC current meters (50 mV) listed above are calibrated for 5' leads and require external shunts. |                                  |                                 |                 |                 |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>AC Microammeters Rectifier Type, Self-Shielding Movement</b> |                                  |                                 |                 |                 |
|-----------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                           | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                 |                                  | 2-1/2" Model 147                | 3-1/2" Model 47 | 4-1/2" Model 49 |
| 0-100                                                           | 3400                             | < >                             | 04120           | 04160           |
| 0-200                                                           | 2400                             | < >                             | < >             | 04170           |
| 0-300                                                           | 1800                             | < >                             | 04140           | 04180           |
| 0-500                                                           | 1200                             | < >                             | 04150           | 04190           |
| < > Available on special order                                  |                                  |                                 |                 |                 |

| <b>AC Milliammeters, Iron Vane Movement</b> |                                  |                                 |                 |                 |
|---------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                       | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                             |                                  | 2-1/2" Model 157                | 3-1/2" Model 57 | 4-1/2" Model 59 |
| 0-10                                        | 650.0                            | < >                             | 05440           | 05510           |
| 0-15                                        | 887.0                            | < >                             | 05499           | < >             |
| 0-25                                        | 270.0                            | < >                             | 05460           | 05530           |
| 0-50                                        | 80.0                             | 06130                           | 05470           | 05540           |
| 0-100                                       | 17.2                             | 06140                           | 05480           | 05550           |
| 0-250                                       | 3.1                              | 06150                           | 05490           | 05560           |
| 0-500                                       | .9                               | 06152                           | 05500           | 05570           |
| < > Available on special order              |                                  |                                 |                 |                 |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>AC Milliammeters Rectifier Type, Self Shielding Movement</b> |                                  |                                 |                 |                 |
|-----------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                           | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                 |                                  | 2-1/2" Model 147                | 3-1/2" Model 47 | 4-1/2" Model 49 |
| 0-1                                                             | 600                              | < >                             | 06850           | 06880           |
| 0-2                                                             | 400                              | < >                             | 06860           | 06890           |
| 0-5                                                             | 200                              | < >                             | 06870           | 06900           |
| < > Available on special order                                  |                                  |                                 |                 |                 |

| <b>AC Ammeters, Iron Vane Movement</b>                                                           |                                  |                                 |                 |                 |
|--------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                                                            | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                                                  |                                  | 2-1/2" Model 157                | 3-1/2" Model 57 | 4-1/2" Model 59 |
| 0-1                                                                                              | .213                             | 02270                           | 01120           | 01290           |
| 0-1.5                                                                                            | .105                             | < >                             | 01130           | 01302           |
| 0-2                                                                                              | .065                             | 02290                           | 01140           | 01310           |
| 0-3                                                                                              | .028                             | 02300                           | 01145           | 01320           |
| 0-5                                                                                              | .008                             | 02310                           | 01160           | 01330           |
| 0-10                                                                                             | .004                             | 02320                           | 01170           | 01340           |
| 0-15                                                                                             | .0025                            | 02330                           | 01180           | 01350           |
| 0-25                                                                                             | .002                             | 02340                           | 01190           | 01360           |
| 0-30                                                                                             | .0015                            | 02350                           | 01200           | 01370           |
| 0-50                                                                                             | .001                             | 02360                           | 01210           | 01380           |
| 0-75                                                                                             | .0002                            | < >                             | 03434           | 03436           |
| 0-75                                                                                             | .008                             | 02370 †                         | < >             | < >             |
| 0-100                                                                                            | .008                             | 02380 †                         | 01230 †         | 01400 †         |
| 0-150                                                                                            | .008                             | 02390 †                         | 01240 †         | 01410 †         |
| 0-200                                                                                            | .008                             | < >                             | 01250 †         | 01420 †         |
| 0-250                                                                                            | .008                             | 02410 †                         | 01260 †         | 01430 †         |
| 0-300                                                                                            | .008                             | 02420 †                         | 01270 †         | 01440 †         |
| 0-500                                                                                            | .008                             | 02422 †                         | 01280 †         | 01450 †         |
| < > Available on special order                                                                   |                                  |                                 |                 |                 |
| † These meters are 5 amp meters with scales as indicated and require external donut transformers |                                  |                                 |                 |                 |



# Rectangular Style Analog Panel Meters

## Ordering Information

| <b>AC Voltmeters Rectifier Type, Self Shielding Movement</b> |                                  |                                 |                 |                 |
|--------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                        | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                              |                                  | 2-1/2" Model 147                | 3-1/2" Model 47 | 4-1/2" Model 49 |
| 0-1                                                          | 2000 Ohms per Volt               | < >                             | 08120           | 08300           |
| 0-3                                                          |                                  | < >                             | 08130           | 08310           |
| 0-5                                                          |                                  | < >                             | < >             | 08320           |
| 0-10                                                         |                                  | < >                             | < >             | 08330           |
| 0-15                                                         |                                  | < >                             | < >             | 08340           |
| 0-50                                                         |                                  | < >                             | < >             | 08350           |
| 0-100                                                        |                                  | < >                             | 08180           | 08360           |
| 0-150                                                        |                                  | < >                             | 08190           | 08370           |
| 0-300                                                        |                                  | < >                             | < >             | 08371           |
| < > Available on special order                               |                                  |                                 |                 |                 |

| <b>AC Voltmeters, Iron Vane Movement</b>                                                                                                        |                                  |                                 |                 |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|-----------------|-----------------|
| Range                                                                                                                                           | Approx. Impedance (Ohms) @ 60 Hz | Model / Size and Catalog Number |                 |                 |
|                                                                                                                                                 |                                  | 2-1/2" Model 157                | 3-1/2" Model 57 | 4-1/2" Model 59 |
| 0-1.5                                                                                                                                           | 3                                | < >                             | < >             | 08710           |
| 0-3                                                                                                                                             | 12                               | < >                             | 08540           | 08720           |
| 0-5                                                                                                                                             | 33                               | 09390                           | 08550           | 08730           |
| 0-10                                                                                                                                            | 133                              | 09400                           | 08566           | 08740           |
| 0-15                                                                                                                                            | 300                              | 09420                           | 08580           | 08750           |
| 0-25                                                                                                                                            | 833                              | 09440                           | 08599           | 08760           |
| 0-50                                                                                                                                            | 3,333                            | 09450                           | 08610           | 08770           |
| 0-100                                                                                                                                           | 16,166                           | 09460                           | 08620           | 08780           |
| 0-150                                                                                                                                           | 25,000                           | 09470                           | 08630           | 08790           |
| 0-250                                                                                                                                           | 41,166                           | 09490                           | 08650           | 08800           |
| 0-300                                                                                                                                           | 50,000                           | 09500                           | 08660           | 08810           |
| 0-500                                                                                                                                           | 83,333                           | 09520 †                         | 08680 †         | 08820 †         |
| 0-750                                                                                                                                           | 125,000                          | < >                             | 08690 †         | 08830 †         |
| 0-1000                                                                                                                                          | 166,666                          | < >                             | 08700 †         | 08840 †         |
| † External multipliers, Model 183 are furnished on AC meters having a range of 500 volts or higher. All others have self contained multipliers. |                                  |                                 |                 |                 |
| < > Available on special order                                                                                                                  |                                  |                                 |                 |                 |

# Rectangular Style Analog Panel Meters

| <b>Specifications</b>        |                                                                                                                                                                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Accuracy</b>              | ±2% full scale (iron-vane), ±3% (rectifier)                                                                                                                                                                                       |
| <b>Wattmeters:</b>           | ±2% full scale; Compensated meters: ±3% full scale                                                                                                                                                                                |
| <b>Movement</b>              | Model 57, 59, 157 Iron-vane, magnetically damped<br>Wattmeters: Dynamometer<br>All others: Annular, rectifier type, self-shielding                                                                                                |
| <b>Suspension</b>            | Pivot and jewel; "T" styles: taut band                                                                                                                                                                                            |
| <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 %, tautband: .5%                                                                                                                                                                                                                |
| <b>Dial</b>                  | Sharp clear scale. Each dial arc is calibrated to track the specific type of movement used                                                                                                                                        |
| <b>Resistance</b>            | ±15% of meter impedance                                                                                                                                                                                                           |
| <b>Pointer</b>               | Spade pointer with black, matte finish                                                                                                                                                                                            |
| <b>Scale Length</b>          | Models 177 & 157: 1.6" (40.6mm)<br>Models 147, 127 & 127T: 1.8" (45.7mm)<br>Models 57 & 77: 2.3" (58.4mm)<br>Models 27, 27T & 47: 2.5" (63.5mm)<br>Models 59 & 79: 3.50" (89.0mm)<br>Models 29, 29T & 49: 3.9" (99.0mm)           |
| <b>Net Weight</b>            | Models 57 & 157: 5 oz. (0.14 kg)<br>Model 127, 127T & 147: 7 oz. (0.20 kg)<br>Models 27, 27T, 47 & 59: 8 oz. (0.23 kg)<br>Models 77 & 177: 9 oz. (0.26 kg)<br>Models 29, 29T & 49: 11 oz. (0.31 kg)<br>Model 79: 12 oz. (0.34 kg) |

# Rectangular Style Analog Panel Meters

| <b>Frequency Meter Specifications</b> |                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Accuracy</b>                       | 45-55 Hz $\pm$ 0.3 Hz (120V-240V)                                                             |
|                                       | 55-65 Hz $\pm$ 0.3 Hz (120V-240V)                                                             |
|                                       | 380-420 Hz $\pm$ 1.2 Hz (120V-240V)                                                           |
| <b>Movement</b>                       | Small core magnet, self-shielding                                                             |
| <b>Suspension</b>                     | Pivot and jewel                                                                               |
| <b>Shielding</b>                      | Calibration is unaffected by magnetic panel mounting                                          |
| <b>Center Scale Value</b>             | 50/60/400 Hz                                                                                  |
| <b>Power Consumption</b>              | 1.6 VA                                                                                        |
| <b>Warm-up Time</b>                   | 5 minutes                                                                                     |
| <b>Max. Input: Voltage (10 sec)</b>   | 150, 120V normal                                                                              |
|                                       | 280, 240V normal                                                                              |
| <b>Dial</b>                           | Sharp clear scale.<br>Each dial arc is calibrated to track the specific type of movement used |
| <b>Case</b>                           | High density black plastic                                                                    |
| <b>Operating Temperature</b>          | -4°F to + 149°F (-20°C to + 65°C)                                                             |
| <b>Pointer</b>                        | Spade pointer with black, matte finish                                                        |
| <b>Scale Length</b>                   | Model 187: 1.8" (45.7mm)                                                                      |
|                                       | Model 89: 3.5" (89.0mm)                                                                       |
|                                       | Model 87: 3.9" (99.0mm)                                                                       |
| <b>Net Weight</b>                     | Model 187: 5 oz. (0.14 kg)                                                                    |
|                                       | Model 87: 8 oz. (0.23 kg)                                                                     |
|                                       | Model 89: 11 oz. (0.31 kg)                                                                    |

# Rectangular Style Analog Panel Meters

## Dimensions

3-1/2" Model 27 & 27T, 47, 57, & 87



3-1/2" Model 77



4-1/2" Model 29 & 29T, 49, 59, & 89



4-1/2" Model 79



2-1/2" Model 177



2-1/2" Model 127 & 127T, 147, 157, & 187



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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