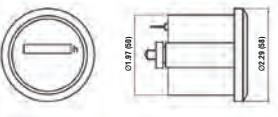
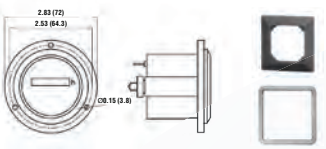
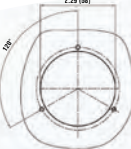
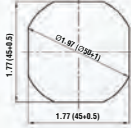
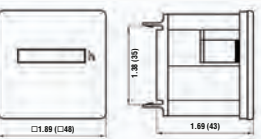
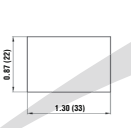
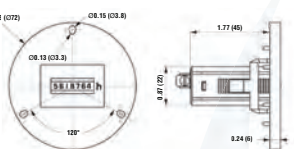
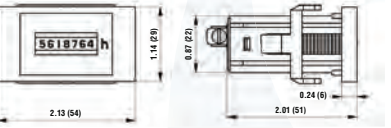
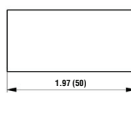


# AC and DC Hour Meters

**TAC Models:** HMA 460, HMA 470, HMA 300  
**DC Models:** HMD 460, HMD 470, HMD 300



|                    |                        | 470 Series                                                                                | 460 Series                                                                                | 300 Series                                                                                |
|--------------------|------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Mechanical Data    | Display                | AC: 5 integers, 2 decimals<br>DC: 6 integers, 1 decimal<br>AC indicator without reset     | AC: 5 integers, 2 decimals<br>DC: 6 integers, 1 decimal<br>without reset                  | AC: 5 integers, 2 decimals<br>DC: 6 integers, 1 decimal<br>without reset                  |
|                    | Digit Height           | 0.16" (4mm)                                                                               | 0.16" (4mm)                                                                               | 0.16" (4mm)                                                                               |
|                    | Digit Colour           | Integer: white on black<br>Decimal: 50 Hz – red on black<br>Decimal: 60 Hz – red on white | Integer: white on black<br>Decimal: 50 Hz – red on black<br>Decimal: 60 Hz – red on white | Integer: white on black<br>Decimal: 50 Hz – red on black<br>Decimal: 60 Hz – red on white |
|                    | Counting Range         | AC: 99,999.99 h,<br>DC: 999,999.9 h                                                       | AC: 99,999.99 h,<br>DC: 999,999.9 h                                                       | AC: 99,999.99 h,<br>DC: 999,999.9 h                                                       |
|                    | Reading Accuracy       | AC: 1/100 h (36 sec)<br>DC: 1/10 h (6 min)                                                | AC: 1/100 h (36 sec)<br>DC: 1/10 h (6 min)                                                | AC: 1/100 h (36 sec)<br>DC: 1/10 h (6 min)                                                |
|                    | Weight                 | 2 oz                                                                                      | 2 oz                                                                                      | 1 oz                                                                                      |
|                    | Housing color/Marking  | Standard Black                                                                            | Standard Black/Neutral                                                                    | Standard Black/Neutral                                                                    |
| Electrical Data    | Operating Voltage (AC) | 24, 48, 60, 110, 120, 220, 230, 240, 400<br>VAC ± 10%, 50 or 60 Hz                        | 24, 48, 60, 110, 120, 220, 230, 240, 400<br>VAC ± 10%, 50 or 60 Hz                        | 24, 48, 60, 110, 120, 220, 230, 240, 400<br>VAC ± 10%, 50 or 60 Hz                        |
|                    | Operating Voltage (DC) | 6-30, 10-80, 110, 220<br>VDC ± 10%                                                        | 6-30, 10-80, 110, 220<br>VDC ± 10%                                                        | 6-12, 12-36, 36-80, 110, 220<br>VDC ± 10%                                                 |
|                    | Current Consumption:   | AC: max. 8 mA<br>DC: max. 9 mA                                                            | AC: max. 8 mA<br>DC: max. 9 mA                                                            | AC: max. 8 mA<br>DC: max. 9 mA                                                            |
|                    | Connection             | Screw Connection, 1/4" Spade                                                              | Screw Connection, 1/4" Spade                                                              | Screw Connection, 1/4" Spade                                                              |
| Ambient Conditions | Operating Temperature: | AC: -13°F to +176°F<br>DC: -4°F to +158°F                                                 | AC: -13°F to +176°F<br>DC: -4°F to +158°F                                                 | AC: -13°F to +176°F<br>DC: -4°F to +158°F                                                 |
|                    | Storage Temperature:   | AC: -40°F to +176°F<br>DC: -4°F to +158°F                                                 | AC: -40°F to +176°F<br>DC: -4°F to +158°F                                                 | AC: -40°F to +176°F<br>DC: -4°F to +158°F                                                 |
|                    | Relative Humidity:     | Max. 80% at 77°F                                                                          | Max. 80% at 77°F                                                                          | Max. 80% at 77°F                                                                          |
|                    | Protection             | NEMA 4X                                                                                   | NEMA 1 (IP40 Front)<br>NEMA 4X (IP66 Front - on request)                                  | NEMA 1 (IP40 Front)<br>NEMA 4X (IP67 Front)<br>NEMA 6P (IP67 - Totally Sealed Housing)    |

| Model | Dimensions                                                                          |                                                                                     | Panel Cut-Out                                                                       | Mounting                    | Ordering                                          |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------|
| 470   |    |    |    | Flush with aluminum clamp   | Model HMA 470 (AC)<br>Model HMD 470 (DC)          |
| 471   |    |    |    | Flush with three screws     | Model HMA 471 (AC)<br>Model HMD 471 (DC)          |
| 460   |    |    |    | Flush with retainer bracket | HMA 460 (AC)<br>HMD 460 (DC)<br>Voltage/Freq.     |
| 461   |    |    |                                                                                     | Surface with DIN rail       | HMA 461 (AC)<br>HMD 461 (DC)<br>Voltage/Freq.     |
| 300   |   |   |   | Flush With Retainer Bracket | HMA 300 (AC)<br>HMD 300 (DC)<br>Voltage/Frequency |
| 301   |  |  |  | Flush With Retainer Bracket | HMA 301 (AC)<br>HMD 301 (DC)<br>Voltage/Frequency |
| 302   |  |  |  | Flush With Two #6 Screws    | HMA 302 (AC)<br>HMD 302 (DC)<br>Voltage/Frequency |
| 303   |  |  |  | Flush With Three #8 Screws  | HMA 303 (AC)<br>HMD 303 (DC)<br>Voltage/Frequency |
| 304   |  |  |  | Flush With Retainer Bracket | HMA 304 (AC)<br>HMD 304 (DC)<br>Voltage/Frequency |

Note: Specify 1/4" spade or screw terminals

