

85000 Series

The 85000 Series provides legendary Hobbs performance and reliability in a technically advanced quartz package. The Quartz Plus features a highly reliable drive mechanism, an improved odometer gear train, and a snap-together integrated chassis. The chassis fits into a shockproof, totally-sealed case made of an engineered plastic that is impervious to acids and solvents.

To ensure our high standards of quality, all parts are in-process inspected. Every Quartz Plus meter must pass 100% function, burn-in, and timing accuracy test before shipping.

Specifications

- 10,000 hour version standard, with automatic recycle to zero
- Temperature range: -40° F to +185° F
-40° C to +85° C
- Quartz accuracy: ±200ppm, ±0.02% (entire voltage and temperature range)
- Operating voltage range: 5-110 VDC (Voltage range covered by 85000 Series line)
- Precision built relay driven odometer
- Excellent vibration & shock resistance:
Vibration: 20 g's @ 10-80Hz (SAE J1378)
10 g's (per MIL-M-3971)
Shock: 55 g's @ 9-13msec (SAE J1378)
75 g's (per MIL-M-3971)
- Transient Voltage Protection
Alternator load dump: 150V
EMI (Electromagnetic Interference): +400V @ 500Hz
Inductive switching and reverse polarity
- Standard terminals: 1/4" male blade
- Lens material: Glass
- Case material: Polyester
- Number size: 0.12" (3mm)

Features

- Custom CMOS integrated circuit
- Indicates operating time in hours and tenths, plus has a running indicator
- Totally-sealed
- Battery system voltages: 6,12,24,36,48,60,72,and 80 VDC
- UL Recognized (File number AU1774)
- CSA Certified (File number LR42455-12)
- Conforms to MIL-M-3971

Options:

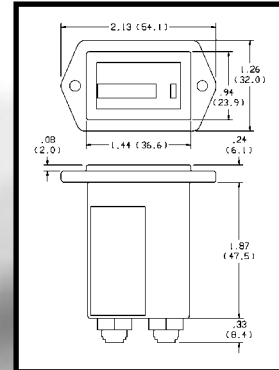
Custom logos, polycarbonate lenses, and various bezels. Wire, stud, blade, and screw terminals. 100,000 hour, R-Terminal and filtered versions available too.

Quartz Plus DC Hour Meters



2 Screw

Operating Voltage	Part #
6.5-16 VDC	85331
10-32 VDC	85000
10-80 VDC	85094
30-110 VDC	85013

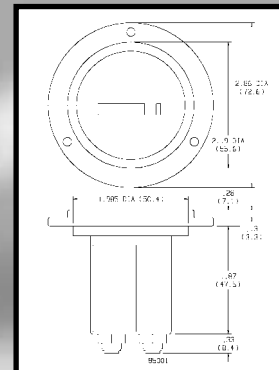


Two-Screw Mount: Panel cutout 1.45 x .95 rectangular opening. Two .150 holes spaced 1.750.*



3 Screw

Operating Voltage	Part #
10-32 VDC	85001
10-80 VDC	85097
30-110 VDC	85014

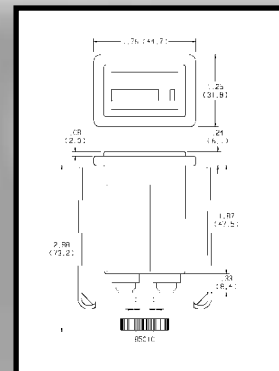


Three-Screw Mount: Panel cutout 2.00 diameter opening. Three .150 holes equally spaced on 2.53 bolt circle diameter.*



Rectangular Stirrup

Operating Voltage	Part #
10-32 VDC	85010
30-110 VDC	85023

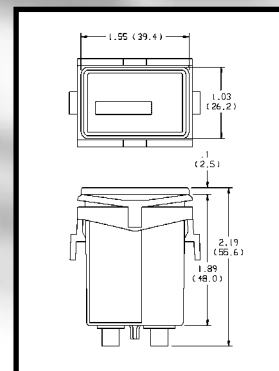


Rectangular Stirrup: Panel cutout 1.45 x .95 rectangular opening.*



Retainer Mount

Operating Voltage	Part #
10-32 VDC	82001
10-80 VDC	82320



Retainer Mount: Panel cutout 1.45 x .95 rectangular opening.*

* Panel cutout dimensions are ± .010 tolerance
All dimensions shown in inches and (metric)

85000 Series Quartz Plus DC Hour Meters



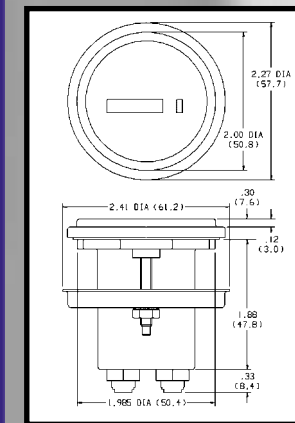
Round Chrome Bezel

Operating Voltage	Part # Flush Cup 2.27"	Part # Flush Cup 2.50"	Part # Stirrup 2.27"	Part # Stirrup 2.50"
10-32 VDC	85002	85006	85004	85008
10-80 VDC	85342	85098		
30-110 VDC	85015	85019	85017	85021

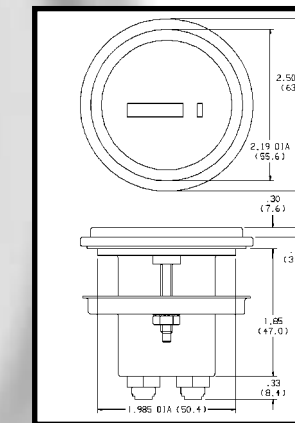


Round Black Bezel

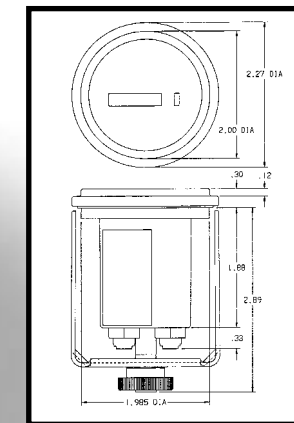
Operating Voltage	Part # Flush Cup 2.27"	Part # Flush Cup 2.50"	Part # Stirrup 2.27"	Part # Stirrup 2.50"
10-32 VDC	85003	85007	85005	85009
10-80 VDC	85093	85099		
30-110 VDC	85016	85020	85018	85022



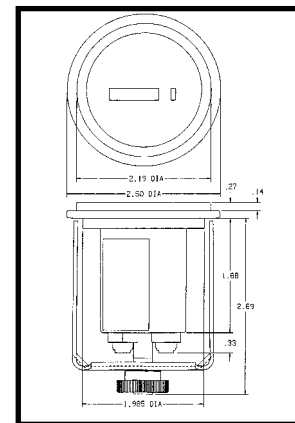
Flush Mount (Cup)
2.27": Panel cutout
2.00 diameter opening.*



Flush Mount (Cup)
2.5": Panel cutout
2.00 diameter opening.*



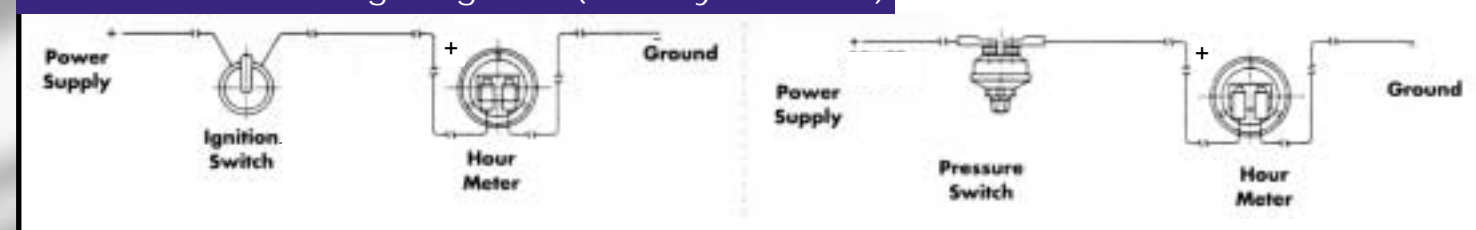
Flush Mount (Stirrup)
2.27": Panel cutout
2.00 diameter opening.*



Flush Mount (Stirrup)
2.5": Panel cutout
2.00 diameter opening.*

* Panel cutout dimensions are ± .010 tolerance
All dimensions shown in inches and (metric)

85000 Series Wiring Diagrams (Polarity Sensitive)



CAUTION: Always make sure power is removed from equipment before working on electrical circuits! Only qualified personnel should make electrical connections. Damage to equipment and/or serious bodily injury can result from improperly made electrical connections, or a failure to adhere to normal electrical safety guidelines

DC APPLICATIONS

- Lawn Tractors
- Garden Tractors
- Farm Equipment
- Gen Sets
- Construction Equipment
- Utility Vehicles
- Industrial Equipment
- Recreational Vehicles
- Golf Carts
- Aircraft
- Medical Equipment
- Office Equipment
- Any application requiring a very accurate and dependable hour meter.