Honeywell

If you have not found what you are looking for or you have further questions, please feel free to call us at 217-753-7797 or fax us at 217-753-7789. It will help us process your request more efficiently and effectively if you can provide as much detailed information about your requirements/application as possible.

Thanks for considering Hobbs meters from Honeywell!

# **MANUFACTURING**

Honeywell Hobbs' commitment to the customer in past years and present is what has helped us develop our world-class manufacturing systems. Some of the methods by which we continuously improve our products and processes are as follows:

- Six Sigma methodology is a strategy used to accelerate improvements in our processes, products and services, and to reduce manufacturing costs and improve quality. It achieves this by relentlessly focusing on eliminating waste and reducing defects and variations.
- Continous Flow Process utilizing "Rabbit Chase" concepts are used in the focused factories in order to achieve the lowest total cost, defect-free product.
- Single Minute Exchange of Dies (SMED method) provides reduced time in molding cell.
- Statistical Process Control is used for measuring critical dimensions and controlling manufacturing processes.
- Poka-Yoke method and computerized test equipment are utilized to eliminate scrap and rework.
- Kanban cards are used to pull raw material and piece parts through the factory.
- Bar coding and electronic data interchange (EDI)

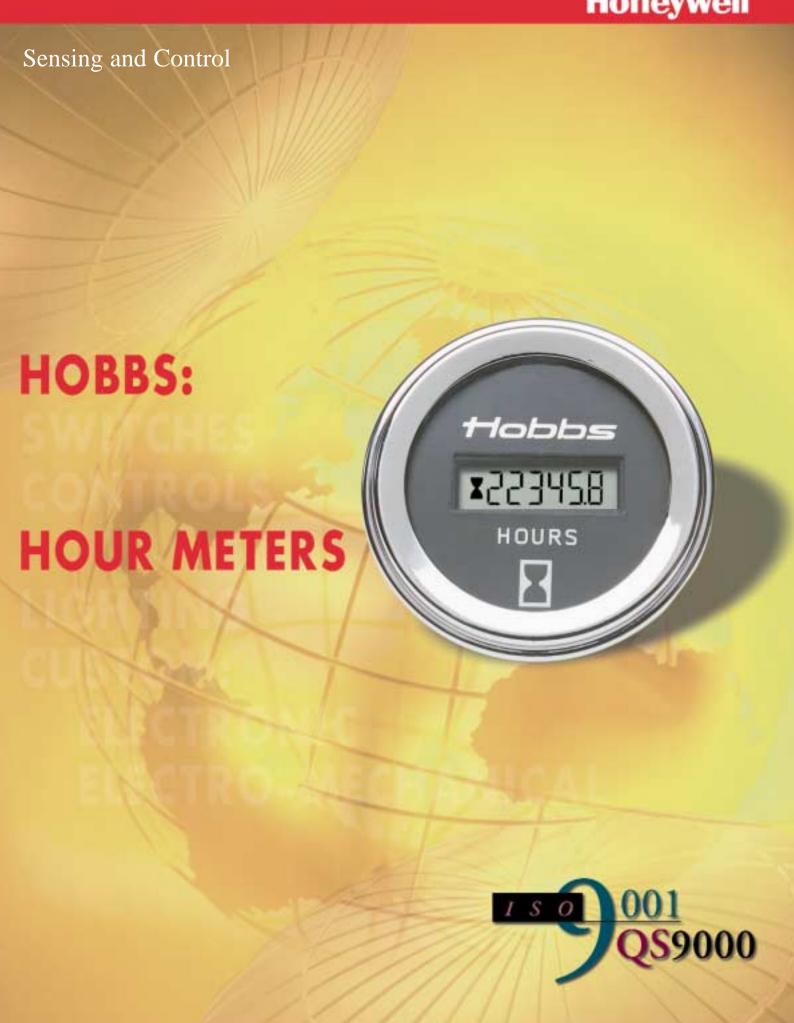


# **QUALITY SYSTEMS**

It is the goal of Honeywell Hobbs to meet customer value-needs through continuously improved products and processes. That is the basis by which we work to create a partnership with our customers. Evidence of our commitment is proven by a goal of a Shipped Product Quality Level (SPQL) of 100 ppm. We utilize Advanced Quality Planning and QS9000 based quality systems. © 2003 Honeywell International Inc. All Rights Reserved.

Honeywell

Sensing and Control www.honeywell.com/hobbs email: www.honeywellhobbs.marketing@honeywell.com Honeywell P.O. Box 19424 Springfield, IL 62794-9424 USA Catalog 20-1103, GLO Printed in the USA



The Hobbs brand is well known worldwide for the development of quality electro-mechanical products. The invention of the first electrically wound automobile clock in 1938 created what is now known as Honeywell Hobbs. John Weston Hobbs was the inventor that cultivated this electrically-wound vehicle clock into a company that has over the years expanded to include hour meters, pressure and vacuum switches, halogen lamps, transmission shifters, and other custom electro-mechanical products. Honeywells' broad customer and market base includes industries such as automotive, agricultural, material handling, construction, marine, medical, heavy truck, lawn and garden, recreational, generators, compressors and aviation. Honeywells' commitment to continuous improvement and total quality management will allow for further expansion of its product lines and customer base while maintaining the highest standards of excellence.



# Contents: P. 3-5 D.C. P. 6-7 A.C. P. 8-11 Accessories P. 11 Warranty P. 11

# www.honeywell.com/hobbs

## Other AC and DC Meters Available

## Round Flush with Retainer Mount





## **Round Slotted 3 screw**



Contact Hobbs for more information and specifications on above meters.

## **Hour Meter Accessories**



Mounting brackets. For mounting hour meters in any location when panel installation is not practical. Multiple holes allow positioning for easy reading. Foot of bracket can be bent when necessary. Part Number M-329 (2 13/16" x 4") for meter only. Part Number M-558 (4" x 5 1/8") when meter and damper are used together.

Damper. Protects meter from severe vibration. Use on panel or with Part Number M-558 bracket. Part Number M-3888 (3 7/8" dia.) for three-screw type DC meters.





Panel mounting bracket. Designed to bolt to a flat surface area 2 13/16" x 5 1/4". Provides easy-to-read meter position. Part Number M-486 for three-screw type DC meter only.

Angle bracket. For two-screw flange AC and DC rectangular meters only, when panel mounting is not practical. Part Number 23944.



# Custom Instrument Panel Clusters

Let Hobbs custom design your display panel saving you time and money. We can assemble a panel to your specifications that frees up your engineering resources, reduces parts counts and reduces your vendor base.



# Warranty and remedy

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

While we provide application assistance, personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change at any time without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

Sales and Service

Honeywell serves its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact a nearby sales office or

INTERNET: www.honeywell.com/hobbs

E-mail:

honeywellhobbs.marketing@honeywell.com

Warranty Periods:

The products listed are warranted for the periods shown:

# **28100** Series

Unlike conventional AC hour meters that are limited to one primary voltage and frequency, the Hobbs Multi-Range Quartz hour meter will operate over a full range of voltages and frequencies. The meters will work accurately over a voltage range of 90 VAC to 264 VAC and at frequencies of either 50 Hz or 60 Hz. This unique feature means that one hour meter will work for virtually any application anywhere in the world!

## Specifications

• Operating Voltage: 90 to 264 VAC

• Frequencies: 50 to 60 Hz

• Temperature Range: -40°F to +185°F

#### Features

- Records time 0 to 99,999.9 hours
- Accuracy ±0.02%
- UL Recognized
- CSA (UL)
- CE Mark
- Totally sealed from dirt and moisture
- Termination

- 1/4" spade

#### **Benefits**

- Reduced parts count
- Reduced inventories
- Fewer purchase orders
- Eliminate production line errors
- Reduce service parts

## **Options**

- Wire leads
- Custom lens
- Terminals (up, down, straight)

## WARNING!

Applied voltage not to exceed 264 Vac RMS. This meter was not intended to be used in applications where excessive transient voltages are present. It is the responsibility of the customer to determine the suitability of this device for use in their system.

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

# **AC Multi-Range Meters**



Retainer Mount	
Operating Voltage	Part #
90-264 VAC	28100



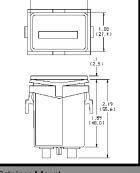
## 2 Screw Standard Bezel

Operating Voltage	Part #	
90 to 264 VAC	28101	

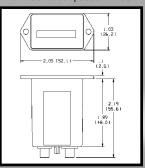


## 2 Screw Deluxe Bezel

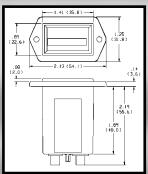
Operating Voltage	Part #	
90 - 264 VAC	28103	



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



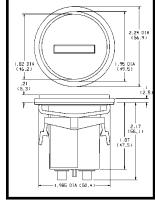
2 Screw Standard: Panel cutout 1.45 x .95 rectangular opening. Two .150 holes spaced 1.750\*



2 Screw Deluxe: Panel cutout 1.45 x .95 rectangular opening. Two .150 holes spaced 1.750\*

# GUARTZ TOTAL HOUSE

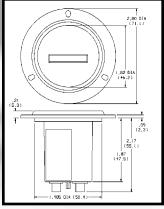
Round Black Bezel		
Operating Voltage	Part #	
90 - 264 VAC	28104	



Flush Mount (Retainer) 2.24" Panel cutout 2.00 diameter opening\*



3 Screw		
Operating Voltage	Part #	
90 - 264 VAC	28105	



3 Screw Mount: Panel cutout 2.00 diameter opening Three .125 holes equally spaced on 2.42 bolt circle diameter\*

# **98000** Series

The Hobbs 98000 Series LCD hour meters provide a large easy-to-read display in a conventional size package. The hour meters are available in a variety of mounting styles and voltage ranges that will fit virtually any application.

## Specifications:

- Run Accuracy ±200ppm; ±0.02%
- Start Time: maximum 1second
- 6 Digit Display
- Digit Height: 6mm
- Power draw: .8 mA at 12 VDC (Power Terminal)
- Termination: 1/4" blade 3/16" blade optional
- Temperature Range:
  - Operating: -40°C to +85°C
- Vibration: 20 g's per SAE J1378
- Shock: 55 g's per SAE J1378
- · Operating ranges:
  - 4.5 to 16 VDC (optional) 9 to 64 VDC

  - >64 VDC Contact Factory
- Display:
  - 0 to 99,999.9 Hours 0 to 999,999 Counter
- Transient Voltage Protection
  - Load Dump
  - Inductive
  - EMI
  - Reverse Polarity

## Features

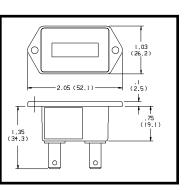
- Totally sealed from moisture and dirt
- · Direct replacement for current hour meter
- No battery backup needed
- Fits in existing panel openings
- Custom bezels and dial artwork available
- Snap-in retainer mount combines easy installation with rugged design
- Compact Depth
- Rugged Design
- Pulse Counter Option
- Reset Option
- Run Indicator
- \* Panel cutout dimensions are ± .010 tolerance All dimensions shown in inches and (metric)

# **LCD Hour Meters**



## 2 Screw Standard Bezel

Operating Voltage	Terminals	Part #
9 to 64 VDC	2 terminal	98310
9 to 64 VDC	3 terminal with enable	98320
9 to 64 VDC	4 terminal resettable	98300

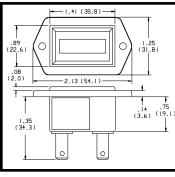


2 Screw Standard: Panel cutout 1.45 x .95 rectangular opening Two .150 holes spaced 1.750\*



## 2 Screw Deluxe Bezel

Operating Voltage	Terminals	Part #
9 to 64 VDC	2 terminal	98313
9 to 64 VDC	3 terminal with enable	98323
9 to 64 VDC	4 terminal resettable	98303



2 Screw Deluxe: Panel cutout 1.45 x .95 rectangular opening Two .150 holes spaced 1.7507

LCD Meter

**APPLICATIONS** 

Garden Tractors

Utility Vehicles

Construction Equipment

Recreational Vehicles

• Electronic Panels

Rental Equipment

Pressure Washers

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

• Test Equipment

Material Handling Equipment

Generators

Medical

Boom Lifts

Sweepers

# **LCD Hour Meters**

# 20000 Series Deluxe AC Hour Meters



## Retainer Mount

Operating Voltage	Terminals	Part #
9 to 64 VDC	2 terminal	98311
9 to 64 VDC	3 terminal with enable	98321
9 to 64 VDC	4 terminal resettable	98301



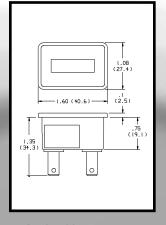
## Round Chrome Bezel

Operating Voltage	Terminals	Part #
9 to 64 VDC	2 terminal	98314
9 to 64 VDC	3 terminal with enable	98324
9 to 64 VDC	4 terminal resettable	98304

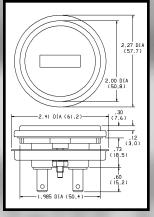


## Round Black Bezel

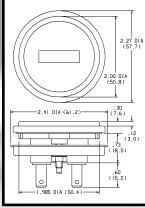
Operating Voltage	Terminals	Part #
9 to 64 VDC	2 terminal	98312
9 to 64 VDC	3 terminal with enable	98322
9 to 64 VDC	4 terminal resettable	98302



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



Flush Mount (Retainer) 2.27" Panel cutout 2.00 diameter opening\*



Flush Mount (Retainer) 2.27": Panel cutout 2.00 diameter opening\*

# Hobbs iiiiiiii Browns to

#### Rectangular Retainer Mount Operating Part # Voltage Hertz Termination 108-132 VAC 50 Screw\* 20174 50 108-132 VAC Blade\*\* 20183 108-132 VAC 20116 60 Screw\* 108-132 VAC 60 Blade\*\* 20182 216-264 VAC 50 20171 Screw\* 216-264 VAC 50 Blade\*\* 20170 216-264 VAC 60 Screw\* 20177

Hobbs

0 0 0 0 0 129

Hours to

Square Retainer Mount

Termination

Screw\*

Screw\*

Screw\*

Screw\*

\*\* UL Recognized, CSA Certified and CE Mark

\* UL Listed, CSA Certified and CE Mark

Part #

20176

20115

20173

20179

Hertz

50

60

50

60

Operating

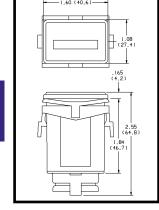
Voltage

108-132 VAC

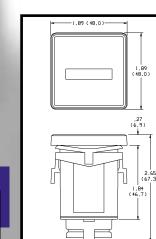
108-132 VAC

216-264 VAC

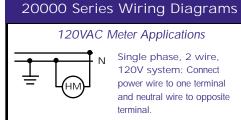
216-264 VAC

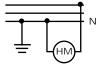


Rectangular Retainer: Panel cutout 1.45 x .95 rectangular opening\*



Square Retainer: Panel cutout 1.45 x .95 rectangular opening\*





Single phase, 3 wire, 120/240V system: Connect any one power wire to one terminal and the neutral wire to the opposite terminal.



Three phase, 4 wire wye, 120/208V system: Connect any one power wire to one terminal and the neutral wire to the opposite terminal.

Three phase, 4 wire delta with a high leg, 120/240V system: Connect any one of the two available 120V power wires to one terminal of the meter and the neutral wire to the opposite teminal. Do not connect the high leg (208V) to the meter.

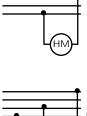
## 240VAC Meter Applications



Single Phase, 2 wire, 240V system: Connect power wire to one terminal and neutral wire to opposite terminal



Single phase, 3 wire, 120/240V system: Connect meter across two high sides of the line. Do not connect the neutral wire to the meter.

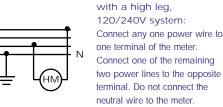


across any two power lines.

Three phase, 4 wire delta with a high leg,

Three phase, 3 wire delta

240V system: Connect meter



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

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 quidelines.

4

## **20000** Series

When there's a need to keep track of run time, quality-minded companies choose Hobbs! Whether it's for testing purposes, leasing applications, maintenance reasons, and/or warranty programs, you want an accurate and reliable hour meter. The Hobbs 20000 Series hour meter delivers!

To ensure our high standards of quality, all parts are in-process inspected. Every meter must pass 100% function and timing accuracy tests before shipping. These "Deluxe" AC meters are also totally sealed

benefit from an uncommon design which integrates the motor and frame into one substructure

## Specifications

- Records up to 99,999 hours Automatic recycle to zero
- 24,120 and 240 VAC models available (Range ±10%)
- 50 and 60 Hertz versions
- 3.0 watts power rating
- Operating temperature: -65°F to +154°F (-54°C to +68°C)
- Accuracy: ±.02%.
- Weight: 3 oz
- Screw termination or 7" lead wires
- · Lens material:
- 3-screw mount: Glass
- All others: Polycarbonate
- · Case material: Polycarbonate
- Number size: 0.12" (3mm)
- UL Listed (File # E47098): Screw terminals
- UL Recognized: Wire lead versions
- CSA Certified (File # LR42455)
- Conforms to MIL-M-3971 \*
- CE Mark

#### **Features**

- Polycarbonate, shock resistant, tamper proof case
- Totally sealed \*
- Single phase, synchronous, permanently lubricated motor
- Custom logo dials, 1/4" blade terminals, special wire lengths.

Options: If you need it, let us know. YOUR satisfaction is our goal!

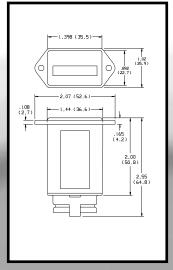
\* Applicable on shown "screw terminal" meters. Contact Hobbs for specifications on other available models

# **Deluxe AC Hour Meters**



## Rectangular 2 Screw

Operating Voltage	Hertz	Termination	Part #
108 to 132 VAC	50	Screw *	20028
108 to 132 VAC	50	7" Leads **	20034
108 to 132 VAC	60	Screw *	20001
108 to 132 VAC	60	7" Leads **	20035
216 to 264 VAC	50	Screw *	20029
216 to 264 VAC	50	7" Leads **	20036
216 to 264 VAC	60	Screw *	20007
216 to 264 VAC	60	7" Leads **	20037



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



## Round 3 Screw

Operating Voltage	Hertz	Termination	Part #
108 to 132 VAC	50	Screw *	20016
108 to 132 VAC	50	7" Leads **	20042
108 to 132 VAC	60	Screw *	20017
108 to 132 VAC	60	7" Leads **	20043
216 to 264 VAC	50	Screw *	20018
216 to 264 VAC	50	7" Leads **	20044
216 to 264 VAC	60	Screw *	20019
216 to 264 VAC	60	7" Leads **	20045

- UL Listed, CSA Certified and CE Mark
- \* UL Recognized, CSA Certified and CE Mark

# -1.985 DIA (50.4)-2,38

- Three-Screw Mount: Panel cut out 2.00 diameter opening. Three .125 holes equaly spaced on
- 2.42 bolt circle diameter.

## AC **APPLICATIONS**

- Business machines
- Control panels
- Lighting systems
- Generators
- Refrigeration
- Furnaces
- Lab test equipment

Air conditioning

- Sun tanning equipment
- Compressors & pumps
   Oxygen concentrators
  - Many more!
  - \* Panel cutout dimensions are ± .010 tolerance All dimensions shown in inches and (metric)

# LCD Hour Meter Module

The Hobbs LCD hour meter module is a custom engineered elapsed time meter designed to be mounted directly to your printed circuit board (PCB). It can be used in a variety of AC or DC applications that require an hour meter, counter or odometer for preventive maintenance, warranty verification, renting and leasing.

### Specifications

- 6 digit/6mm display
- ±0.02% Accuracy
- · Vibration tested per MIL-M-3971D at 10 g's and SAE J1378 at 20 g's
- Shock tested per MIL-M-3971D at 75 g's and SAE J1378 at 55 g's
- Operating temp. range -40°C to +85°C
- Operating voltage range 9 to 64 VDC (optional 4.5 to 16 VDC)
- Transient Voltage Protected

Over Voltage Load Dump Inductive

EMI

Reverse Polarity

 Power Consumption .8 ma max at 12V (power terminal)

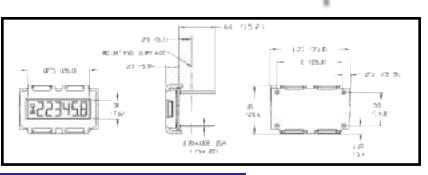
• Start time: maximum 1 second

All Hobbs modules have crucial components exposed. The module must be sufficiently protected if used in an environment other than specified. Consult Hobbs marketing department when suitability of application is questioned.

## Features

- Large easy-to-read numbers
- Silent operation
- Low power demand
- Resettable and nonresettable
- 10 years data retention (without power) over entire temperature range
- · UL Recognized, CSA approved
- Pin termination .03 in diameter
- Hours from 0 to 99,999.9
- Counter from 0 to 999,999 pulses
- Voltages greater than 64 VDC contact factory





## D.C. Version

Operating			
Voltage	Termination	Part #	
9 to 64 VDC	4 pin	98706	
with enable & reset	4 μπ	90700	
4.5 to 16 VDC	4 pin	98707	

## Counter Version

Operating Voltage	Termination	Part #
9 to 64 VDC with reset	4 terminal	98704
9 to 64 VDC without reset	3 terminal	98705

## **Options**

4.5 to 16 VDC

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

## LCD Module **APPLICATIONS**

- Medical
- Vending Machines
- Floor Cleaning Equip.
- Electronic Panels Instrument Panels
- Recreational
- Office Equipment

8

# **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:

6

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			



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

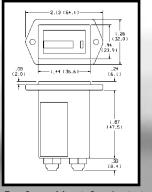


	Rectangular Stirrup				
	Operating Voltage	Part #			
I	10-32 VDC	85010			
	30-110 VDC	85023			

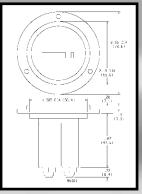


Retainer Mount				
Operating Voltage	Part #			
10-32 VDC	82001			
10-80 VDC	82320			

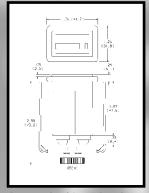
\* Panel cutout dimensions are ± .010 tolerance All dimensions shown in inches and (metric)



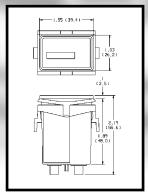
Two-Screw Mount: Panel cutout 1.45 x.95 rectangular opening. Two .150 holes spaced 1.750. \*



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



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



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

# 85000 Series Quartz Plus DC Hour Meters



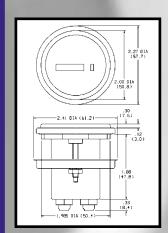
Round Chrome Bezel				
Operating Voltage	Part # Flush Cup 2.27"	Part # Flush Cup 2.50"	Part # Stirrup 2.27"	Part # Stirrup 2.50"
10-32 VDC	85002	85006	85004	85008
10-80 VDC	85342	85098		
30-110 VDC	85015	85019	85017	85021

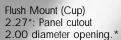


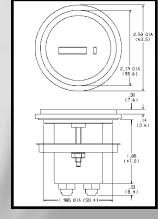
	Round Black Bezel				
ı	Operating Voltage	Part # Flush Cup 2.27"	Part # Flush Cup 2.50"	Part # Stirrup 2.27"	Part # Stirrup 2.50"
	10-32 VDC	85003	85007	85005	85009
b	10-80 VDC	85093	85099		
	30-110 VDC	85016	85020	85018	85022

## DC APPLICATIONS

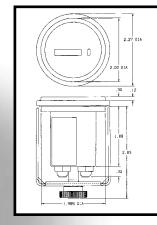
- Lawn Tractors
- Garden Tractors
- Farm Equipment
- Gen Sets
- Construction
   Equipment
- Utility Vehicles
- Industrial Equipment
- Recreational
   Vehicles
- Golf Carts
- Aircraft
- Medical Equipment
- Office Equipment
- Any application requiring a very accurate and dependable hour meter.



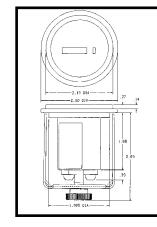




Flush Mount (Cup) 2.5": Panel cutout 2.00 diameter opening.\*



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

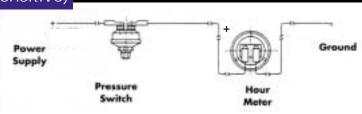


Flush Mount (Stirrup)
2.5": Panel cutout
2.00 diameter opening.\*

\* 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 quidelines



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

## Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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