Runleader®

宁波江北瑞利特电子有限公司

NINGBO JIANGBEI RUNLEADER ELECTRONICS CO., LTD

产品手册

Product manual

计时器类	电量表类	多功能仪表	控制器类	. . .
Hour Meter	Battery Indicator	Multi -function Meter	Controller	...

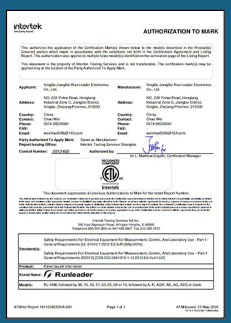
Runleader®

企业简介
Corporate profile

自2008年成立以来，Runleader 专注于计时器、转速表、电量表、温度表、多功能仪表、控制器等领域的产品开发和制造。为园林机械行业、工程机械行业、户外动力车辆设备、运输车辆、电动机、发电机等行业提供的高性价比产品和优质服务。为了更好地服务于客户并提供个性化和专业的OEM＆ODM服务，Runleader持续地对产品和服务进行改进和升级，以增强管理能力，设计和制造能力，快速交付能力和质量保证能力。

Since year of 2008 company founded, Runleader has been focused on product development and manufacturing in the fields of hour meters, tachometers, battery gauges, thermometers, multifunctional meters and controllers, etc. Provide cost-effective products and high-quality service for the garden machinery industry, construction machinery industry, outdoor power vehicle equipment, transportation vehicles, motors, generators and other industries. In order to better serve customers and provide personalized and professional OEM & ODM services, Runleader continuously improves and upgrades products and services to enhance management capabilities, design and manufacturing capabilities, rapid delivery capabilities and quality assurance capabilities.

企业荣誉
Corporate honors


ETL

TUV

IATF 16949

ISO9001

Patent

CE

企业风貌
Corporate culture

AC/DC计时器 / AC/DC hour meter

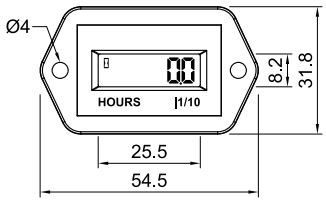
RL-HM008B

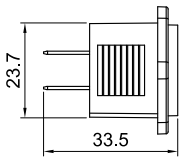
TOT
0-999999H

Working volt
AC/DC 4.5-60V
AC 86-230V

Work temp
-20℃~+75℃

Waterproof
IP68





Unit: mm

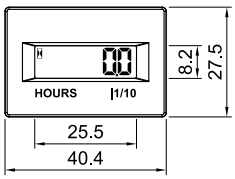
RL-HM010B

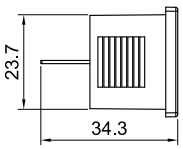
TOT
0-999999H

Working volt
AC/DC 4.5-60V
AC 86-230V

Work temp
-20℃~+75℃

Waterproof
IP68





Unit: mm

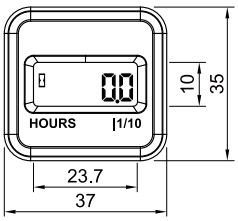
RL-HM072

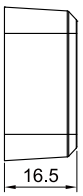
TOT
0-99999H

Working volt
AC/DC 5-300V

Work temp
-20℃~+75℃

Waterproof
IP68





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT
Intertek 5013468

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
www.tuv.com ID: 111231091

CE RoHS REACH COMPLIANT

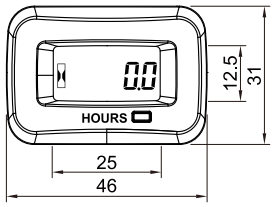
空运 By Air
Battery Cretification

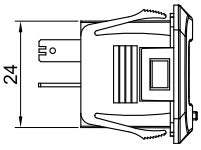
海运 By Sea
Battery Cretification

AC/DC计时器 / AC/DC hour meter

RL-HM038AD

- TOT 0-99999H
- JOB 0-99999H
- TOT intial time range 0-99999H
- Working volt AC/DC 5-277V
- Work temp -20℃~+75℃
- Waterproof IP68

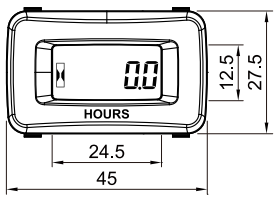


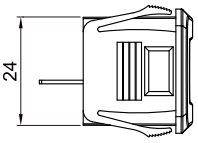


Unit: mm

RL-HM055AD

- TOT 0-99999H
- Working volt AC/DC 5-277V
- Work temp -20℃~+75℃
- Waterproof IP68

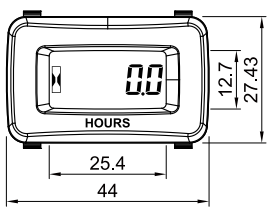


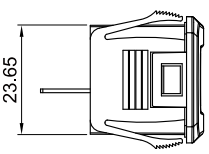


Unit: mm

RL-HM057AD-1

- TOT 0-99999H
- Working volt AC/DC 5-277V
- Work temp -20℃~+75℃
- Waterproof IP68





Unit: mm

认证介绍/Certificates instruction

Intertek 5013468

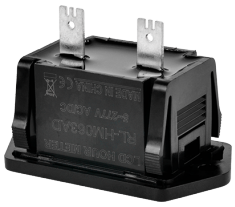
空运 By Air Battery Cretification

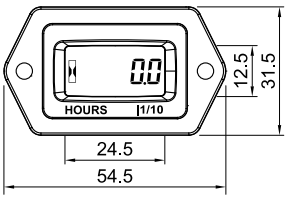
海运 By Sea Battery Cretification

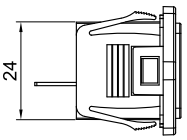
AC/DC计时器 / AC/DC hour meter

RL-HM063AD

- TOT 0-99999H
- Working volt AC/DC 5-277V
- Work temp -20℃~+75℃
- Waterproof IP68



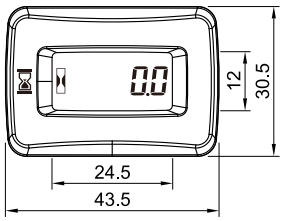


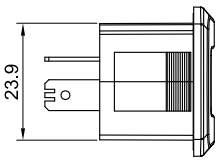


Unit: mm

RL-HM078AD

- TOT 0-99999H
- Working volt AC/DC 5-277V
- Work temp -20℃~+75℃
- Waterproof IP68

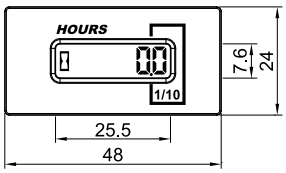


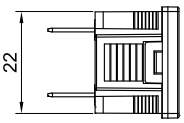


Unit: mm

RL-HM037A

- TOT 0-999999H
- TOT reset
- Working volt AC 6-85V / DC6-60V AC 85-250V / 60-150V
- Easy to install
- Work temp -20℃~+75℃
- Waterproof IP67





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

空运 By Air Battery Cretification

海运 By Sea Battery Cretification

AC/DC计时器 / AC/DC hour meter

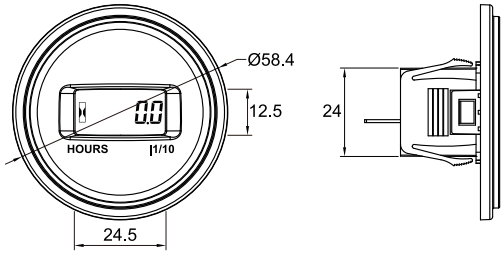
RL-HM056AD

TOT
0-99999H

Working volt
AC/DC 5-277V

Work temp
-20℃~+75℃

Waterproof
IP68



Unit: mm

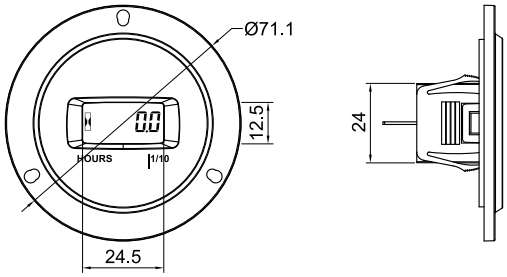
RL-HM065AD

TOT
0-99999H

Working volt
AC/DC 5-277V

Work temp
-20℃~+75℃

Waterproof
IP68



Unit: mm

RL-HM069A

TOT
0-999999H

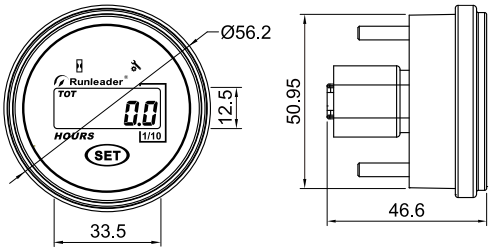
JOB
0-999999H

Working volt
AC 6-85V / DC6-60V
AC 85-250V / 60-150V

SVC
5-2000H / OFF

Work temp
-20℃~+75℃

Waterproof
IP67



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT
Intertek
5013468

TÜVRheinland CERTIFIED
Type Approved
Safety
Regular Production Surveillance
www.tuv.com
ID: 1111231091

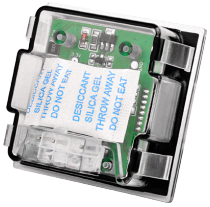
CE RoHS REACH COMPLIANT

空运 By Air
Battery Cretification

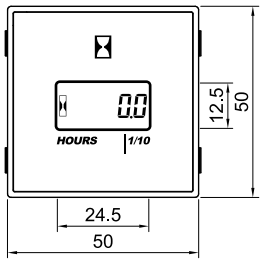
海运 By Sea
Battery Cretification

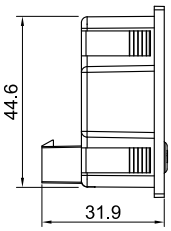
AC/DC计时器 / AC/DC hour meter

RL-HM066



- TOT 0-9999.9H
- Working volt DC 5-30V
- SVC 25H / 50H
- Easy to install
- Work temp -20℃~+75℃
- Waterproof IP67

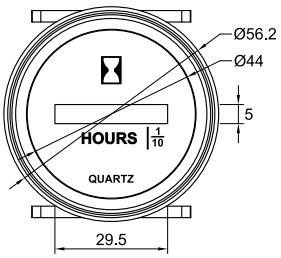


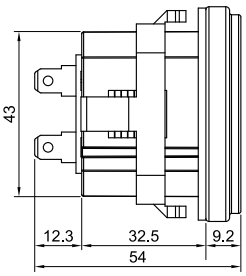


Unit: mm

RL-HM009

- TOT 0-99999.9H
- Easy to install
- Working volt AC/DC 8-80V AC 110-250V
- Work temp -20℃~+65℃
- Waterproof IP67

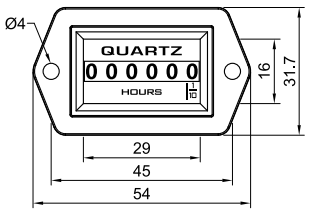


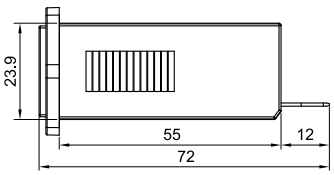


Unit: mm

RL-HM004

- TOT 0-99999.9H
- Easy to install
- Working volt AC/DC 8-80V AC 110-220V
- Work temp -20℃~+65℃
- Waterproof IP65





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 111231091

CE RoHS REACH COMPLIANT

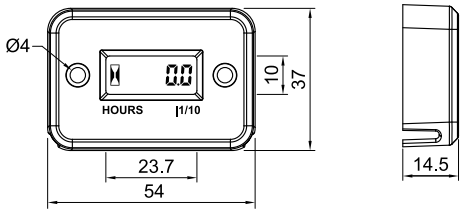
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

感应计时类 / Inductive hour meter

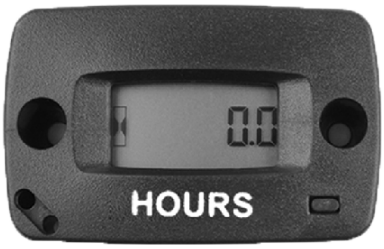
RL-HM006A

- TOT 0-99999H
- Data storage
- Easy to install
- Compact and light
- Work temp ℃/℉ -20℃~+75℃
- Waterproof IP68

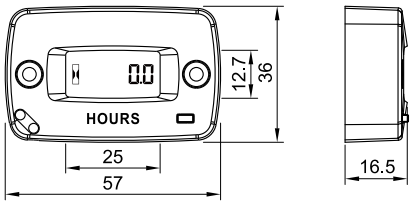


Unit: mm

RL-HM018



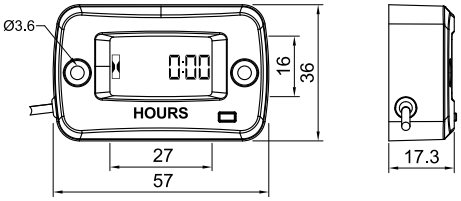
- TOT 0-99999H
- JOB 0-99999H
- SVC 5H / 10H /20H
- Easy to install
- Work temp ℃/℉ -20℃~75℃
- Waterproof IP68



Unit: mm

RL-HM019

- TOT 0-999999H
- JOB 0-999999H
- SVC 0-1000H (3 groups)
- RPM 0-25000RPM
- Work temp ℃/℉ -20℃~75℃
- Waterproof IP68



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT ETL LISTED Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

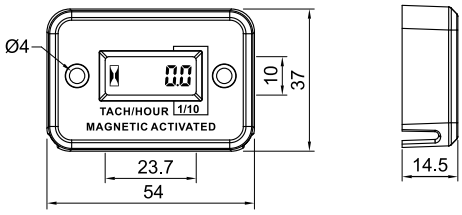
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

感应计时类 / Inductive hour meter

RL-HM012C

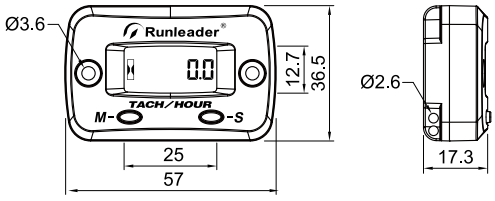
- Magnetic induction
- TOT 0-99999H
- RPM 0-30000RPM
- Compact and light
- Work temp -20℃~+75℃
- Waterproof IP68



Unit: mm

RL-HM068A

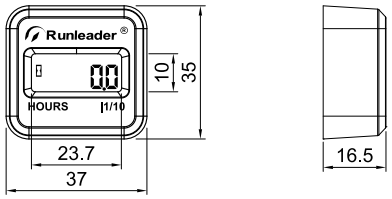
- TOT 0-999999H
- JOB 0-999999H
- TOT intial time range 0-99999.9H
- SVC 0-2000H
- RPM 0-25000RPM
- Waterproof IP67



Unit: mm

RL-HM075

- TOT 0-99999H
- Wireless induction
- SVC 25H/ 50H/ 300H
- Compact and light
- Easy to install
- Waterproof IP68



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

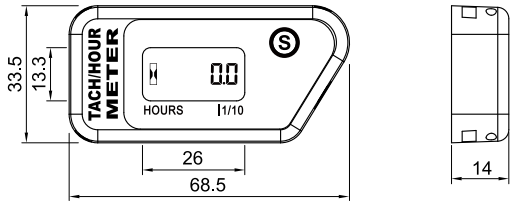
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

转速计时类 / Tachometer

RL-HM016R

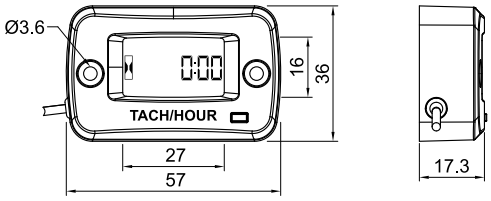
- TOT 0-99999H
- JOB 0-99999H
- RPM 0-30000RPM
- Work temp -20℃~75℃
- Waterproof IP67



Unit: mm

RL-HM019R

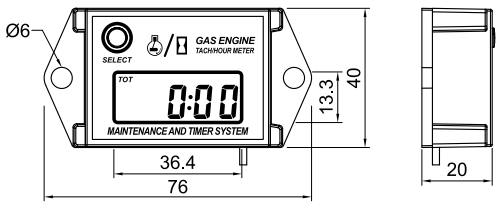
- TOT 0-999999H
- JOB 0-999999H
- SVC 0-1000H
- RPM 0-25000RPM
- Work temp -20℃~75℃
- Waterproof IP68



Unit: mm

RL-HM026A

- TOT 0-99999H
- JOB 0-99999H
- SVC 5-50H / 10-250H
- RPM 0-30000RPM
- Work temp -20℃~75℃
- Waterproof IP67



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT
Intertek 5013468

TÜVRheinland CERTIFIED
Type Approved Safety Regular Production Surveillance
www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

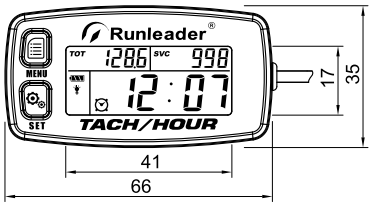
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

转速计时类 / Tachometer

RL-HM032B

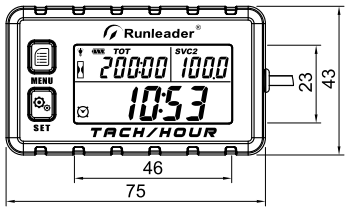
- **TOT** 0-99999H
- **SVC** 5-2000H / OFF
- **TOT intial time range** 0-99999H
- **RPM** 0-25000RPM
- **Clock** 24H
- **Waterproof** IP67

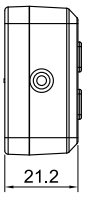


Unit: mm

RL-HM058B

- **TOT** 0-99999H
- **SVC** 5-2000H / OFF
- **TOT intial time range** 0-99999H
- **RPM** 0-25000RPM
- **Clock** 24H
- **Waterproof** IP67

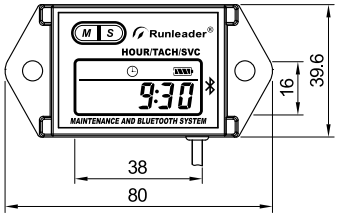


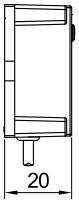


Unit: mm

RL-HM027-BT

- **TOT** 0-99999H
- **SVC** 5-2000H / OFF
- **TOT intial time range** 0-99999H
- **RPM** 0-25000RPM
- **Clock** 24H
- **Bluetooth**
- **Waterproof** IP67





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

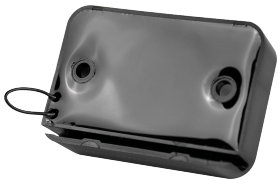
空运 By Air Battery Cretification

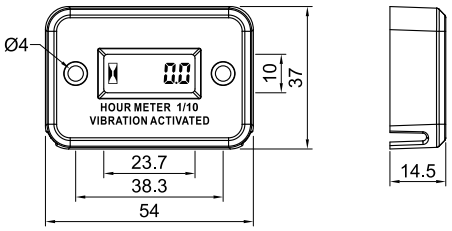
海运 By Sea Battery Cretification

振动计时类 / Vibration hour meter

RL-HM016

- TOT 0-99999H
- Sensitivity
- Data storage
- Compact and light
- Easy to install
- Waterproof IP68

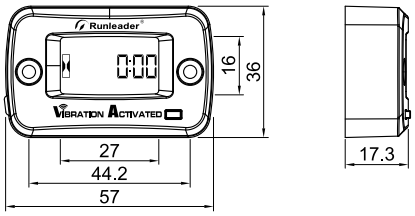




Unit: mm

RL-HM019V

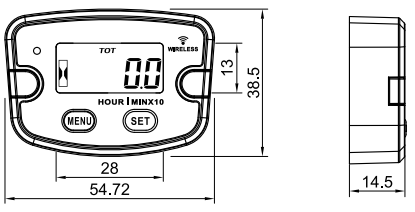
- TOT 0-999999H
- JOB 0-999999H
- SVC 0-1000H
- Sensitivity
- Work temp ℃/℉ -20℃~+75℃
- Waterproof IP68



Unit: mm

RL-HM020

- TOT 0-99999H
- JOB 0-99999H
- SVC 0-9999.9H
- Sensitivity
- Work temp ℃/℉ -20℃~+75℃
- Waterproof IP68



Unit: mm

认证介绍/Certificates instruction

Intertek 5013468

TÜVRheinland CERTIFIED

CE RoHS REACH COMPLIANT

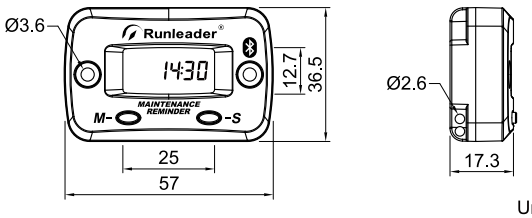
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

振动计时类 / Vibration hour meter

RL-HM068V-BT

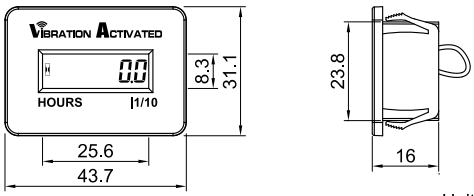
- Bluetooth
- Sensitivity
- Clock 24H
- TOT 0-99999H
- JOB 0-99999H
- SVC 0/5-2000H
- Work temp ℃/℉ -20℃~+75℃
- Waterproof IP68



Unit: mm

RL-HM071A

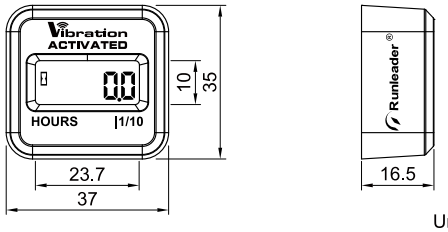
- TOT 0-99999H
- Wireless induction
- Easy to install
- Compact and light
- Work temp ℃/℉ -20℃~+70℃
- Waterproof IP68



Unit: mm

RL-HM075B

- TOT 0-99999H
- Wireless induction
- Easy to install
- Compact and light
- Work temp ℃/℉ -20℃~+70℃
- Waterproof IP68



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

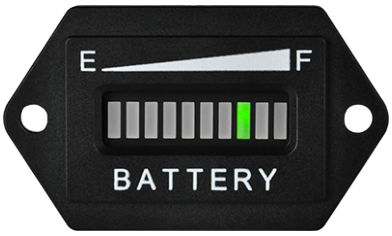
CE RoHS REACH COMPLIANT

空运 By Air Battery Cretification

海运 By Sea Battery Cretification

电量表 / Battery indicator

RL-BI001-1

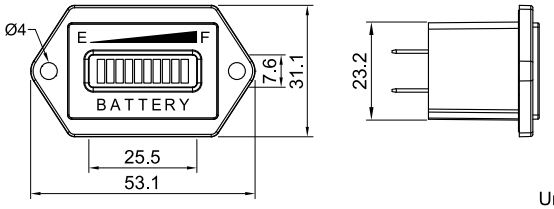


Battery

Easy to install

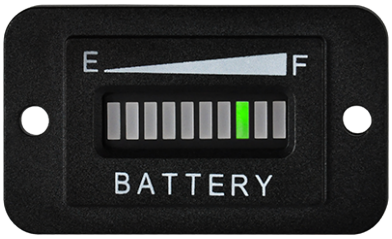
Work temp
-20℃~+75℃

Waterproof
IP68



Unit: mm

RL-BI003-1

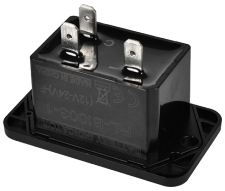


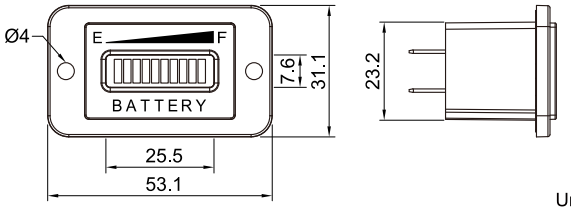
Battery

Easy to install

Work temp
-20℃~+75℃

Waterproof
IP68





Unit: mm

RL-BI028

Battery

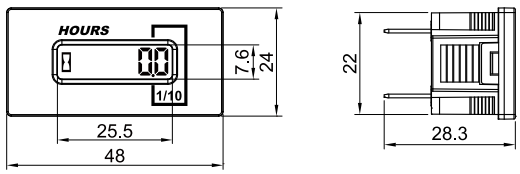
Display mode
2 Type

Data storage

Output
DC 5V

Work temp
-20℃~+65℃

Waterproof
IP67



Unit: mm

认证介绍/Certificates instruction

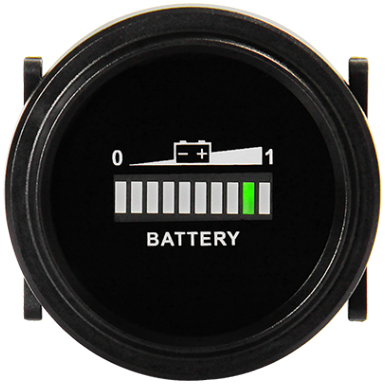
Intertek 5013468

Battery Cretification

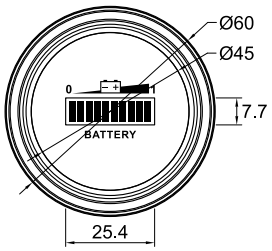
Battery Cretification

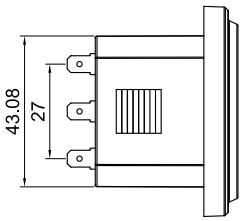
电量表 / Battery indicator

RL-BI002



- **Battery** 12/24V, 36V, 48/72V
- **Easy to install**
- **Work temp** -20℃~+75℃
- **Waterproof** IP65

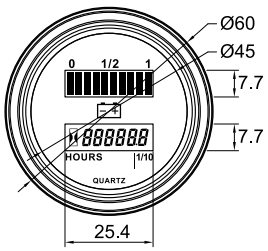


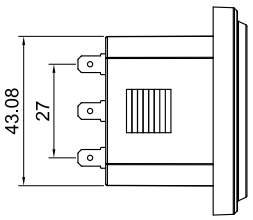


Unit: mm

RL-BI004

- **TOT** 0-999999H
- **Battery** 12/24V, 36V, 48/72V
- **Data storage**
- **Work temp** -20℃~+65℃
- **Waterproof** IP65

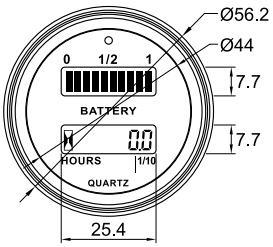


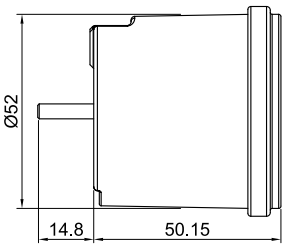


Unit: mm

RL-BI011

- **TOT** 0-999999H
- **Battery** DC 12-48V
- **Working volt** DC 8-60V
- **Output** DC 5V
- **Work temp** -20℃~+65℃
- **Waterproof** IP65





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

空运 By Air Battery Cretification

海运 By Sea Battery Cretification

电量表 / Battery indicator

RL-BI025A

TOT
0-99999H

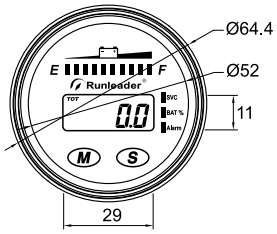
TOT intial time range
0-99999H

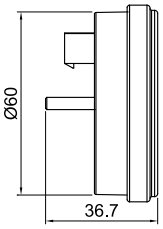
Battery
DC 12-48V

Data storage

Work temp
-20℃~+75℃

Waterproof
IP67





Unit: mm

RL-BI025B

TOT
0-99999H

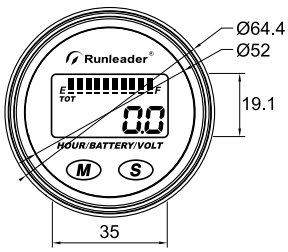
TOT intial time range
0-99999H

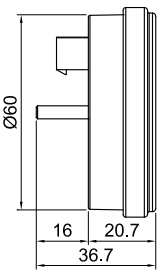
Battery
DC 12-48V

Working volt
DC 8-65V

Work temp
-20℃~+75℃

Waterproof
IP67





Unit: mm

RL-BI011C

TOT
0-99999H

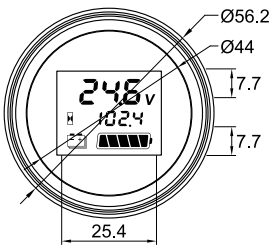
Battery
DC 12-48V

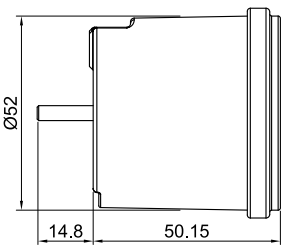
Working volt
DC 8-60V

Output
DC 5V

Work temp
-20℃~+65℃

Waterproof
IP65





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT
Intertek 5013468

TÜVRheinland CERTIFIED
Type Approved Safety Regular Production Surveillance
www.tuv.com ID: 1111231091

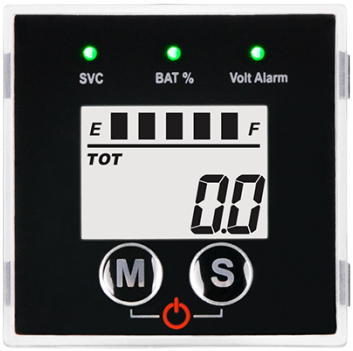
CE RoHS REACH COMPLIANT

空运 By Air Battery Cretification

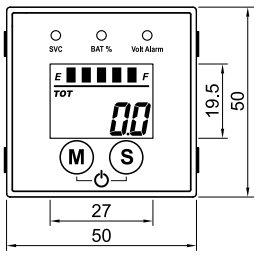
海运 By Sea Battery Cretification

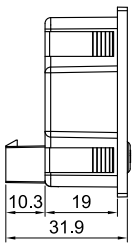
电量表 / Battery indicator

RL-BI022



- TOT: 0-99999H
- Battery: DC 12-48V
- Battery type (optional)
- TOT intial time range: 0-99999H
- Work temp: -20℃~+75℃
- Waterproof: IP67

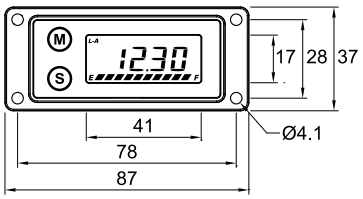


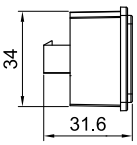


Unit: mm

RL-BI609

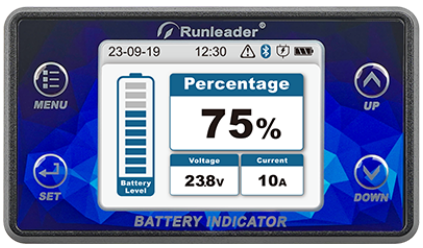
- TOT: 0-99999H
- SVC: 5-2000H / OFF
- TOT intial time range: 0-99999H
- Battery: DC 12-48V
- Battery type (optional)
- CAN
- Data storage
- Work temp: -20℃~+75℃
- Waterproof: IP67



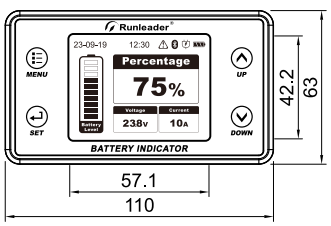


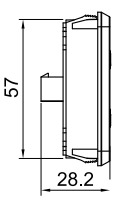
Unit: mm

RL-BI036



- Bluetooth
- Clock: 24H
- Battery: DC 12-48V
- Working volt: DC 8-65V
- Battery type (optional)
- CAN
- Data storage
- Work temp: -20℃~+75℃
- Waterproof: IP67





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

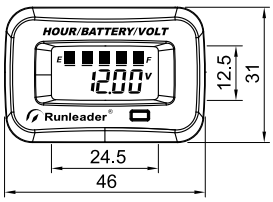
空运 By Air Battery Cretification

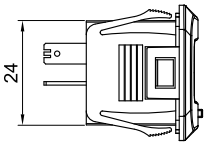
海运 By Sea Battery Cretification

电量表 / Battery indicator

RL-BI038

- TOT 0-99999H
- Battery
- Battery type (optional)
- Output DC 5V
- Working volt DC 12-60V
- Work temp -20℃~+75℃
- Waterproof IP67

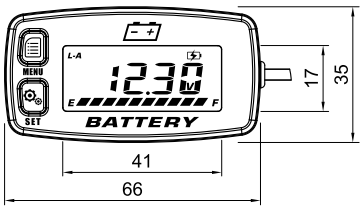


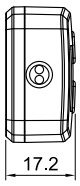


Unit: mm

RL-BI008A

- Battery DC 12-48V
- Working volt DC 8-30V
- Battery type (optional)
- Work temp -20℃~+65℃
- Waterproof IP65

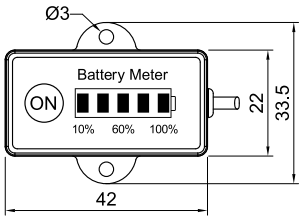


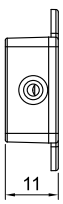


Unit: mm

RL-BI005

- Battery DC 12-48V
- Working volt DC 8-30V
- Battery type (optional)
- Work temp -20℃~+65℃
- Waterproof IP65





Unit: mm

认证介绍/Certificates instruction

Intertek 5013468

TÜVRheinland CERTIFIED

CE RoHS REACH COMPLIANT

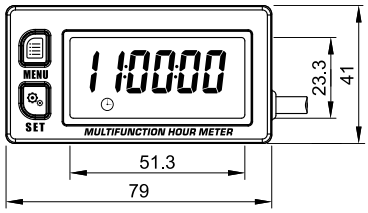
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

温度表 / Thermometer

RL-HM028A

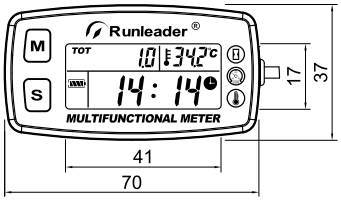
- TOT 0-999999H
- JOB 0-999999H
- SVC 0-250H / OFF
- RPM 0-25000RPM
- Temp -20℃~+300℃
- Clock 24H
- Waterproof IP65

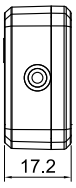


Unit: mm

RL-HM035A

- TOT 0-99999H
- JOB 0-99999H
- SVC 1-1000H / OFF
- RPM 0-2500RPM
- Temp -20℃~+300℃
- Clock 24H
- Waterproof IP67

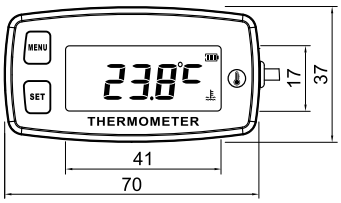


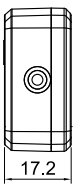


Unit: mm

RL-TM003A

- Temp -20℃~+300℃
- Max temp Resettable
- Over temp reminder -20℃~+300℃
- Easy to install
- Work temp -20℃~+75℃
- Waterproof IP67





Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

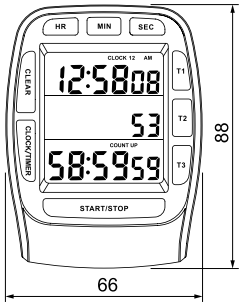
空运 By Air Battery Cretification

海运 By Sea Battery Cretification

定时器 / Timers

RL-KT001

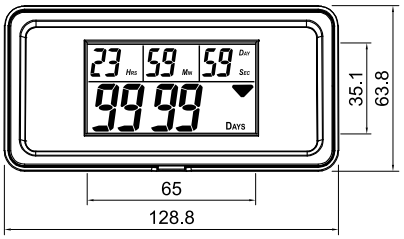
- Clock 12/24H
- Timing 0-99:59:59H
- Count down 3 groups 0-99:59:59H
- Alarm clock
- LCD large screen
- Work temp 0℃~+50℃

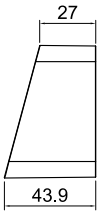


Unit: mm

RL-HM200

- Clock 12/24H
- Alarm clock
- Countdown reset
- Days countdown 9999 Days 23:59:59H
- Calendar
- Work temp -5℃~+55℃

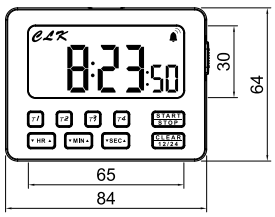


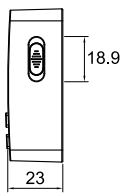


Unit: mm

RL-HM206

- Clock 12/24H
- Timing 0-99:59:59H
- Count down 4 groups 0-99:59:59H
- Alarm clock
- Power saving LCD screen off
- Work temp 0℃~+50℃





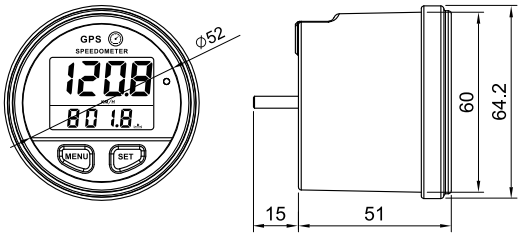
Unit: mm

认证介绍/Certificates instruction

多功能仪表 / Multi-function meter

RL-SM001

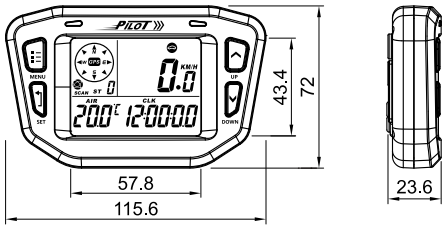
- **Clock** 24H
- **ODO** 0-99999KM
- **Speed**
- **Data storage**
- **Working volt** DC 10-24V
- **Work temp** -20℃~+60℃
- **Waterproof** IP65



Unit: mm

RL-SM002

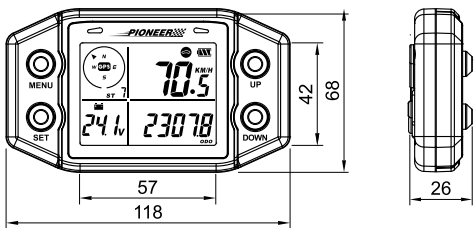
- **TOT** 0-99999.9H
- **SVC** 0-1000H
- **Clock** 24H
- **Speed**
- **ODO** 0-500000KM
- **GPS system**
- **Temp** -20℃~+250℃
- **Working volt** DC 8-60V
- **Waterproof** IP67



Unit: mm

RL-SM003

- **TOT** 0-99999.9H
- **RPM** 0-20000RPM
- **Clock** 24H
- **Speed**
- **ODO** 0-500000KM
- **GPS system**
- **Working volt** DC 8-36V
- **Temp** -20℃~+250℃
- **Waterproof** IP67



Unit: mm

认证介绍/Certificates instruction

RECOGNIZED COMPONENT c ETL us Intertek 5013468

TÜVRheinland CERTIFIED Type Approved Safety Regular Production Surveillance www.tuv.com ID: 1111231091

CE RoHS REACH COMPLIANT

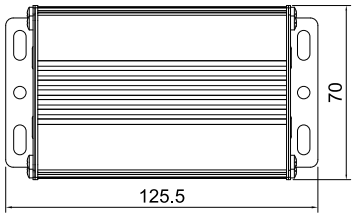
空运 By Air Battery Cretification

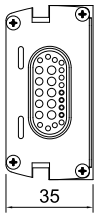
海运 By Sea Battery Cretification

控制器 / Controllers

RL-CT601

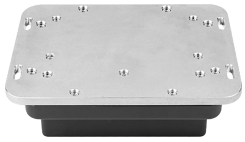
- Brushless motor
- Working volt: DC 24-48V
- Output power: MAX 500W
- Communicate: CAN / 485 / URAT TTL
- High temp protection
- stepless speed change



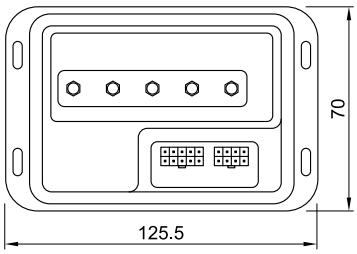


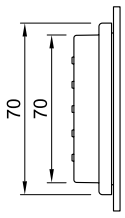
Unit: mm

RL-CT610A



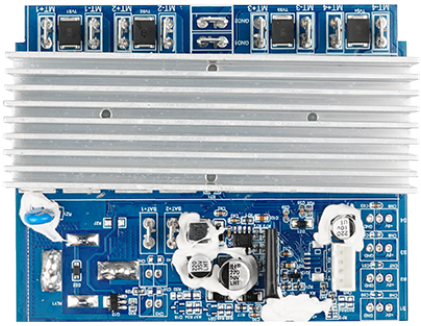
- Brushless motor
- Working volt: DC 24-48V
- Output power: MAX 500W
- Communicate: CAN / 485 / URAT TTL
- High temp protection
- stepless speed change

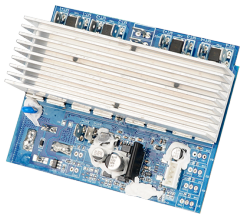




Unit: mm

Custom controllers





- Multiple motor drives
- Working volt
- Drive power
- communication support
- Stepless speed change
- Bluetooth + WiFi
- OTA Technology
- Temp protection
- Current protection
- Voltage protection
- Open-phase protection

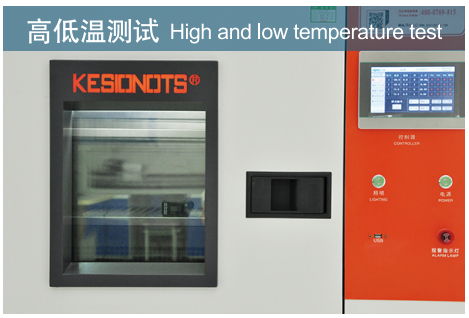
认证介绍/Certificates instruction

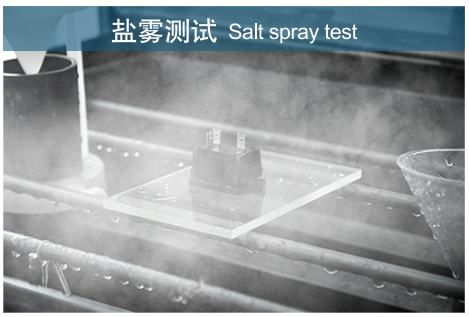
RECOGNIZED COMPONENT Intertek 5013468 · TÜVRheinland CERTIFIED · CE · RoHS · REACH COMPLIANT · 空运 By Air Battery Cretification · 海运 By Sea Battery Cretification

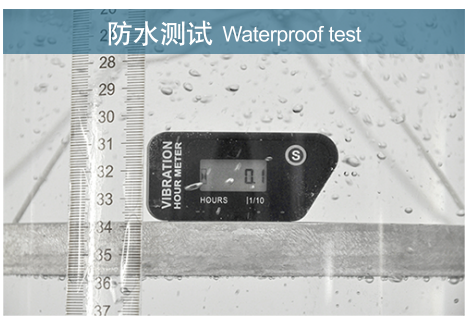
可靠性实验室
Reliability Laboratory

结合产品的功能要求，依据试验大纲，对产品的电气性能、环境特性、机械性能等进行相应的测试和验证。

Combined with the functional requirements of the product and according to the test outline, conduct corresponding tests and verifications on the electrical properties, environmental characteristics, and mechanical properties of the products.







Runleader®

Technical Support: 008613486037150 (Daniel Du)

Add: No.1-2, Sixth Xinheng Road, Cicheng, Jiangbei District,
Ningbo City, Zhejiang Province, China, 315031