

solarus®

HiClass Titration.





solarus[®].

The sunshine in your lab.

solarus[®], Hirschmann Laborgeräte's digital burette sets new standards in manual titration.

Revolutionary: The integrated solar panels supply the energy for the electronic components and the display. I.e. no more charging or changing batteries.

Additional advantage: The serial bi-directional interface (RS 232 and USB) for taking down the performed titrations, further processing of the titration data and input of the user-specific calibration factor.

solarus[®] replaces ideally any breakable glass burette or high end titration automates, if they are too expensive. It needs only a small space and absolutely no power connection. Meniscus reading errors are prevented to a 100% with the clear digital display.

The serial reagent recirculation system makes priming the unit much easier, prevents the loss of expensive reagents and is easy on the environment. Exchangeable valves, simple user-specific calibration "Quick Cal" and the permanently stored default calibration make individual adaptations possible.

solarus[®] is available in 20 ml or 50 ml.

The modern and ergonomical design makes routine titration work much easier, or put it that way: Titration as perfect as it could be.

solarus[®]: The brilliant synthesis of esthetics and function.



design award
winner
2002



reddot



solarus[®]. Unlimited power.

The most important accessory is invaluable. But you get it for free: Solar energy.

The solar panels on the back of the solarus[®] supply the energy needed for the electronic components of the device. Charging or changing batteries, high standby costs and the impractical exchange of Lithium cells at the factory belong to the past.

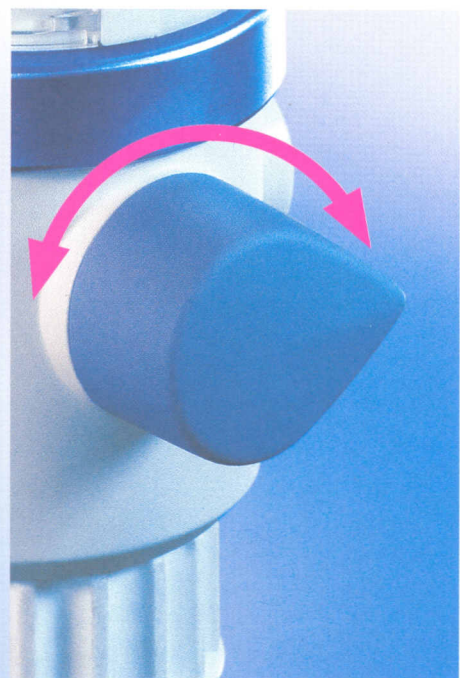
Enjoy the advantages of solar technology instead. Convenient, simple, environmentally friendly, inexhaustible and free.

Even with limited lighting conditions, a reliable energy supply is secured by using high-graded solar panels.




Precision is the key

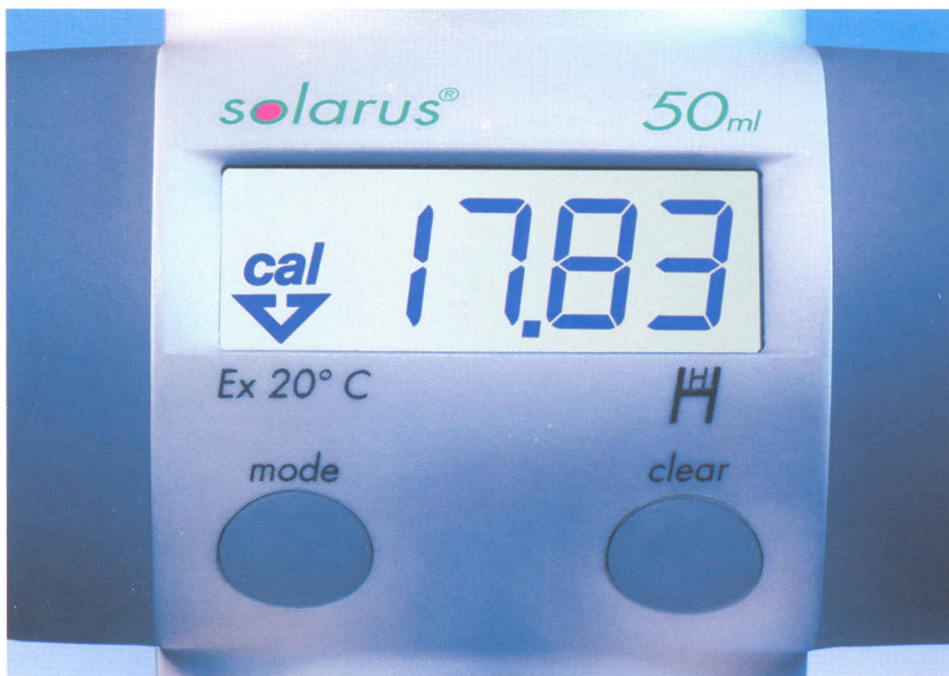
The hand wheels equipped with a softtouch surface guarantee maximum grip and together with the smoothly operating gear provide a very sensitive titration.



Easy on the environment and your budget

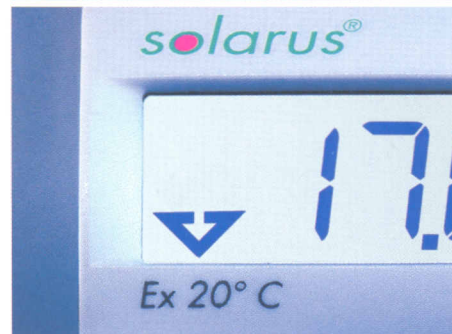
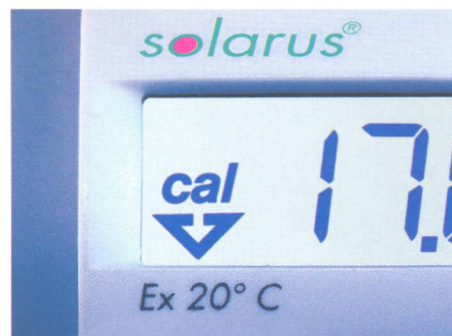
The user-friendly Hirschmann reagent recirculation system primes the device fast, simple and without unnecessary loss of reagent.

 Our product is fulfilling all requirements of the EC-guidelines and it has been tested in accordance to the laid down processes



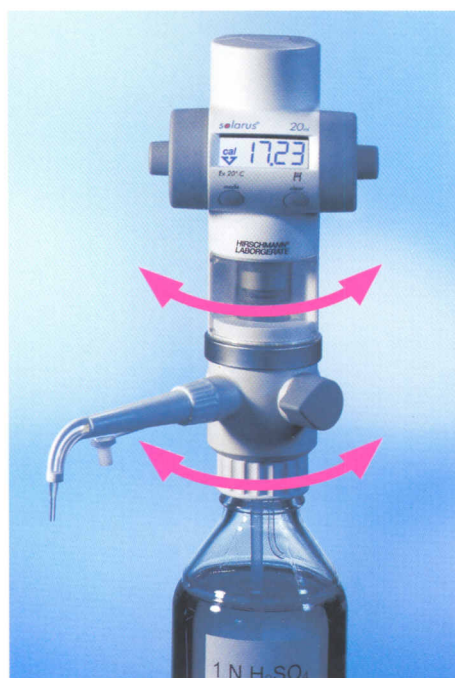
An intelligent head

Clear, self-explaining and user-friendly. The display is always clearly readable, regardless of the angle of view, volume range 0.01 ml - 99.99 ml. The turning direction Fill or Titrate is indicated by arrows and the operation of the keys is obvious. The result: correct volumes and error free readings, even for very sensitive titrations.



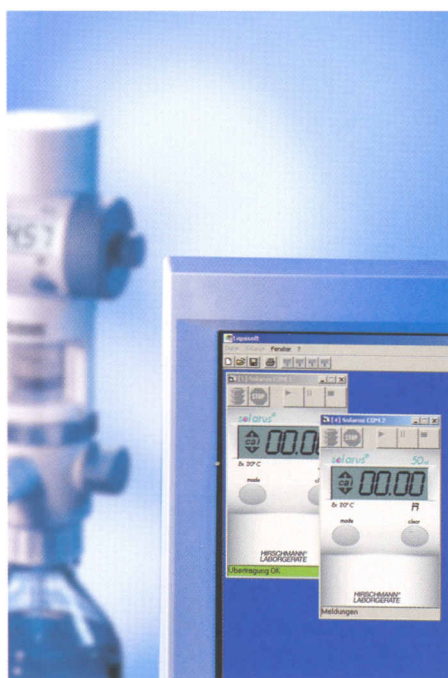
Quick-Cal

Makes individual calibration possible for user-specific adaptations. By merely touching a button the device switches from the default calibration to the user-specific calibration and back at any time.



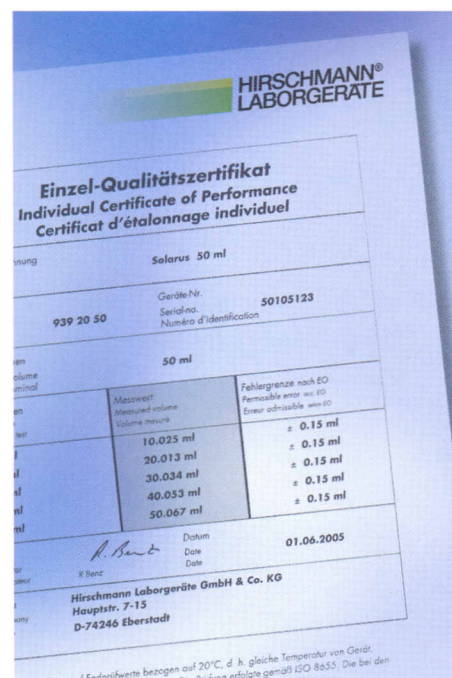
Rotate 360 degrees

An important detail for the daily lab work: you can turn solarus® freely on the bottle. The advantage: labels or lettering on the bottle always face the user. Hence you have everything right before you.



Connection to the future

The serial bi-directional interface permits the user to report titration results and to process data further. An individual calibration factor may also be entered. Suitable connecting cables are available as accessories.



Complete monitoring

Each solarus® is individually tested for accuracy. The individual test certificate indicates the tested values as well as the individual serial number and certifies the conformity with the German "Eichordnung". It can therefore also be accepted as part of the quality documentation in conjunction with the DIN EN ISO 9000 standard.

■ **Solar:**
Power supply through solar panels:
no batteries, no charging

■ **Informative:**
Easily readable, large LC display

■ **Quick-Cal:**
Individual calibration

■ **Tested:**
Individual quality certificate,
conformity certified.

■ **Durable:**
Permanent storage of
default calibration

■ **Future-oriented:**
Serial, bi-directional
interface

■ **Perfect ergonomics:**
Efficient and non-tiring work

■ **Correctly positioned:**
Stable discharge unit

■ **Easy service:**
All valves are easily
exchangeable

■ **Clean and neat:**
Closure cap in safe storage
position



■ **Maximum grip:**
Hand wheels
with a softtouch
surface

■ **Versatile:**
Luer-Lock connection
for filter, dry tube etc.

■ **Environmentally friendly:**
No loss of reagent due
to the user-friendly
reagent recirculation system

■ **Attractive layout:**
Device rotates freely