VWR Colony Counter

Star-Count STC 1000

INSTRUCTION MANUAL

Catalogue Numbers:

Star-Count STC 1000 with universal plug :710-0710

CE

Version: 1

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Legal Address of Manufacturer

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Warning

Read the safety information below and whole user manual before using the VWR Collection Colony Counter STAR COUNT STC 1000. Failure to follow these safety instructions could result electric shock, other injury or damage to the device.

Safety information



Please read this information carefully before putting the device into service !

This device has been built and tested according to the IEC 1010 safety standards for electronic measuring instruments and has left our works in a condition complying with all the requirements of technical safety.
The perfect functioning and operational safety of the instrument can only be ensured if the user observes the normal safety precautions as well as the specific safety guidelines stated in the present operating instruction.

- **The perfect functioning and operational safety of the instrument can only be maintained under the climatic conditions specified in the "Product specification" section of this manual.**
- **When the instrument is moved from cold to warm surroundings, condensate may occur and interfere with the functioning of the instrument. In such a case, the user should wait until the temperature of the instrument has adapted to the ambient temperature before using the instrument again.**

- **Balancing, maintenance and repair work must only be carried out by a qualified technician**
- **If there is reason to assume that the instrument can no longer be employed without a risk, it must be set aside and appropriately marked to prevent further use.**

- **The safety of the user may be endangered, e.g., if the instrument**
  - **shows visible damage,**
  - **no longer operates as specified,**
  - **has been stored over a longer period under unsuitable conditions,**
  - **has been subjected to difficult conditions during transport.**

- **In case of doubt, the instrument should as a rule be sent back to VWR for repair and maintenance. If this instruction manual is not observed the right to claim under guarantee is lost, and the operation may be disturbed or the Colony Counter may be damaged.**

Avoiding Damage to the Instrument

1. **Don’t drop, crush or disassemble the instrument.**
2. **The Colony Counter must be placed on a stable base before use.**

Unpacking

1. **Unpack Colony Counter carefully.**
2. **Remove packing material.**
3. **Remove protective foils from the grid disk (Wolffhügel sectioning)**
4. **Read instruction manual**

Package contents

Description	*Quantity*	*ECN*	*Picture*
Colony Counter Star Count STC 1000	**1**	**710-0710**	
Magnifier glass 2x for STC 1000 **Dimension 142 mm x 100 mm**	**1**	**710-0713**	
Standard marker	**1**	**710-0716**	
Wolffhügel grid (area fields: 1cm² and 1/9 cm²)	**1**	**710-0718**	
Adapter for Petri dishes DIAM 120/90 mm	**1**	**710-0721**	
External power supply	**1**	**710-0720**	
CD	**1**		
Manual	**1**		

Installation

1. **Put the Colony Counter STAR COUNT STC 1000 onto a stable base.**
2. **Positioned the Wolffhügel grid disk (Wolffhügel sectioning: grid: 1 cm² and 1/9 cm²) on the counting sensitive field (if needed) as counting aid**
3. **Install magnifying glass to the mounting clam in the rear part of the device**
4. **Connect Colony Counter STAR COUNT STC 1000 to the mains by appropriate power cable (The instrument is delivered with 1 cable).**

Intended use

The VWR Collection Colony Counter STAR COUNT STC 1000 is designed for counting of bacteria colonies in microbiological analysis. It has been tested to perform for this purpose alone and the manufacturer will not be held responsible for the consequences of any other uses.

Symbols and conventions

The following chart is an illustrated glossary of the symbols that are used in this manual.

⚠	**CAUTION This symbol indicates a potential risk and alerts you to proceed with caution**

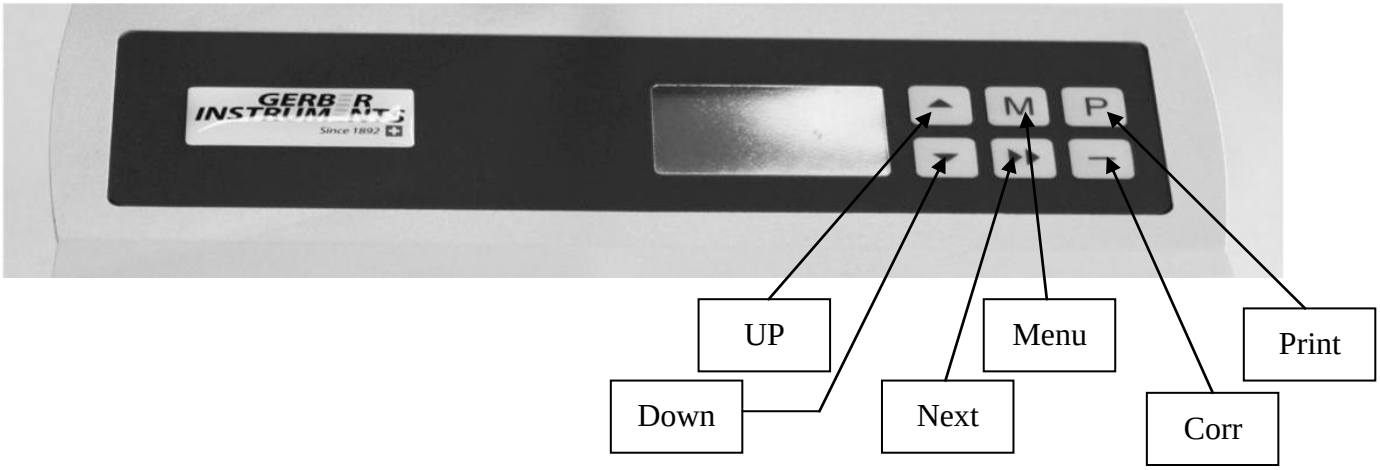
Product Specification

Nominal voltage:	**100-240V ± 10%, 50-60 Hz**
Power consumption	**max.14 VA**
Overall dimensions	**l X D X H: 260 × 330 × 110 mm**
Dimensions of the board:	**l X D : 260 X 330 mm**
Counting field dimensions	**∅ 120 mm**
Weight	**4.5 Kg**

Description of the instrument

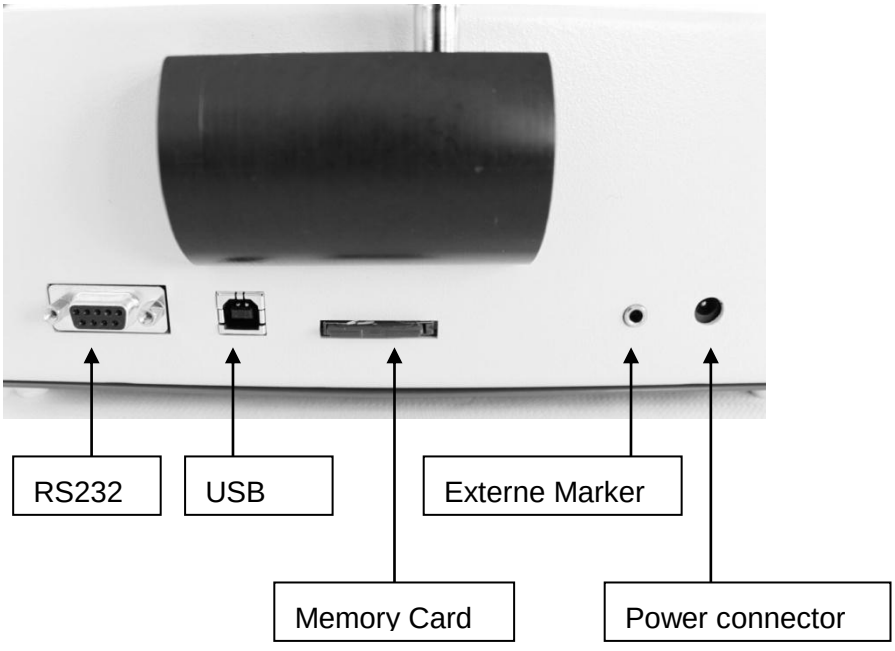


Front view of Colony Counter Star-Count Model STC 1000





Rear view of Colony Counter Star-Count Model STC 1000



Operational key

Operation panel

You can select between Single and Multiple Mode

Single Mode: Count Single Plate

Multiple Mode: Count up to 20 plates and calculate the mean

Button functions in SINGLE MODE Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Switches Backlight on/off	Switches Sidelight on/off	Saves and cancels value	Changes to Multiple-Mode	Correction (-1)	Prints the current value

Button functions in MULTIPLE-MODE Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Switches Backlight on/off	Switches Sidelight on/off	Saves value and opens next dish	Changes to PRINT FILE	Correction (-1)	Prints the current value

Button functions in PRINT FILE Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Scrolls backward through the index	Scrolls forward through the index		Changes to BRIGHTNESS BACKLIGHT		Prints the selected file

Button functions in BRIGHTNESS BACKLIGHT Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Reduces Brightness	Increases Brightness		Changes to BRIGHTNESS SIDELIGHT		

Button functions in BRIGHTNESS SIDELIGHT Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Reduces Brightness	Increases Brightness		Changes to CONTRAST		

Button functions in CONTRAST Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Changes Contrast	Changes Contrast		Changes to SENSITIVITY		

Button functions in SENSITIVITY Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Reduces responsiveness dish	Increases responsiveness dish		Changes to TACTILE FEEDBACK		

Button functions in TACTILE FEEDBACK Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Switches visual feedback on/off	Switches acoustic feedback on/off		Changes to SET TIME (only in Setup-Mode)		

Button functions in SET TIME Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Changes the hour 00 - 23	Changes minutes 00 - 59		Changes to SET DATE (only in Setup-Mode)		

Button functions in SET DATE Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Changes day 01 - 31	Changes month 01 - 12	Changes year 10 - 39	Changes to SETUP PRINTER (only in Setup Mode)		

Button functions in SETUP PRINTER Menu

					
Button 1 [UP]	Button 2 [DWN]	Button 3 [NEXT]	Button 4 [MENU]	Button 5 [CORR]	Button 6 [PRINT]
Changes the Baud rate of the serial interface	Changes the Baud rate of the USB interface		Changes to SINGLE MODE		

Notes on the Button functions

With the Button functions 0 to 0, a longer pressing of the buttons (> 1s) causes a direct return to the SINGLE-MODE. The functions SET TIME, SET DATE and SETUP PRINTER are available only in the Setup-Mode.

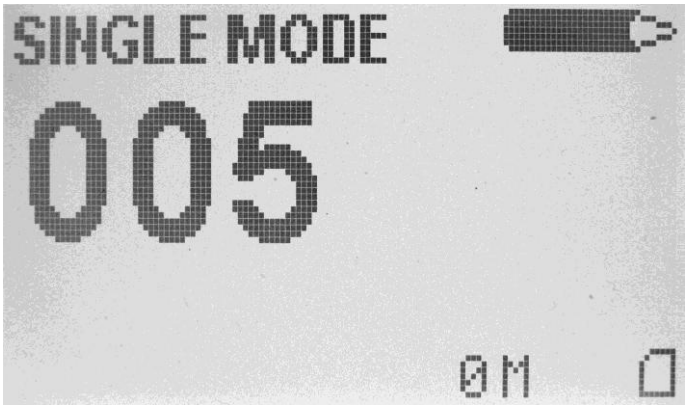
SETUP-Mode

The Setup-Mode is activated by holding Button [M] during the switching-on of the power supply the setting of the date, the time and the Baud rates of the serial interface are then available. If after setting the Single-Mode is reached again, then the Setup-Mode is automatically reset.

DEBUG-Mode

Not for User

Single-Mode



In the Single-Mode metering pulses are selectively collected from the Petri dish or from the pen.
The device automatically recognizes the pen. It is shown in the top right of the display.
Up to 999 impulses can be counted.

Illumination of the Petri dish

Button 1 [UP] and 2 [DWN]: Change the illumination of the Petri dish
Button 1 [UP]: Switches the background lighting (Backlight) on and off
Button 2 [DWN]: Switches the side lighting (Sidelight) on and off

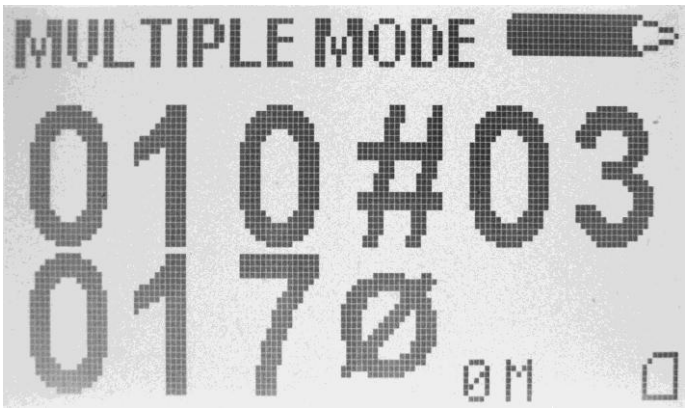
Saving and Resetting the Counter

By using Button 3 [NEXT] the counter value is saved to the SD Card, set at 000 and acoustically signaled (Beep).

Various

Button 4 [MENU] selects the next Menu Function, MULTI-MODE.
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
The current counter value remains.

Multi-Mode



In the Multi-Mode, metering pulses are selectively collected from the Petri dish or the pen.
The device automatically recognizes the pen. It is shown in the top right of the display.
Up to 999 impulses per dish can be counted.
Up to 20 dishes can be measured. The average of all dishes is continuously calculated and displayed

Illumination of the Petri dish

Button 1 [UP] and 2 [DWN]	Change the illumination of the Petri dish
Button 1 [UP]:	Switches the background lighting (Backlight) on and off
Button 2 [DWN]:	Switches the side lighting (Sidelight) on and off

Changing the Dish

Button 3 [NEXT] increases the dish number. If the current counter is equal to 000 it cannot change to a new dish. Up to 20 dishes can be measured.

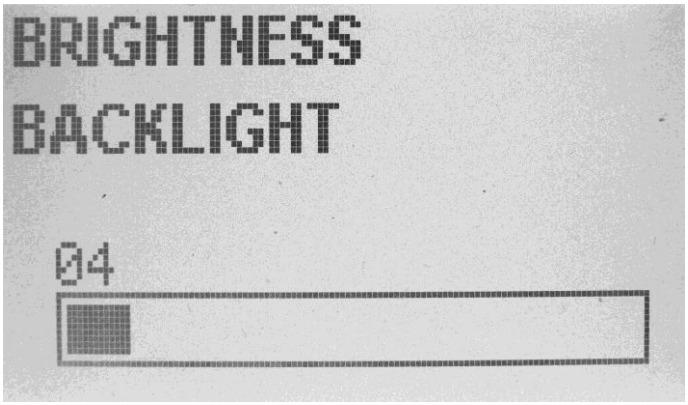
Saving and Resetting the Counter

By changing to the next dish the counter value is saved on the SD Card and set to 000. If Button 3 [NEXT] is pressed for longer than 3 seconds the counters in all the 20 dishes are reset.
With the conclusion of the 20th dish, after saving, the counters 1 – 20 are cancelled. This is also acoustically signaled (Beep).

Various

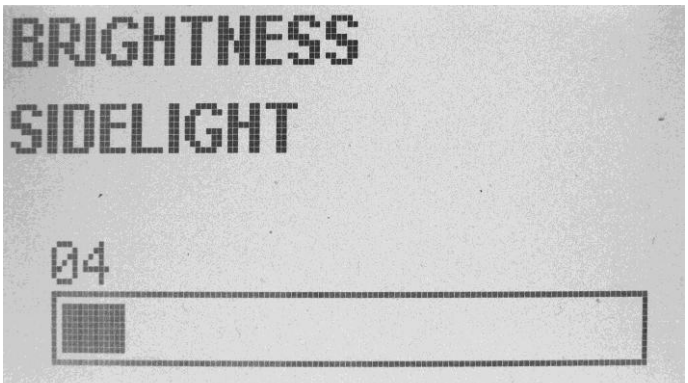
Button 4 [MENU] selects the next Menu function, BRIGHTNESS BACKLIGHT (Contrast setting of the displays).
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other. The current counter value remains.

Brightness Backlight



Buttons 1 [UP] and 2 [DWN] change the brightness of the background illumination of the Petri dish.
Button 3 [NEXT] has no function.
Button 4 [MENU] selects the next Menu function, BRIGHTNESS SIDELIGHT
Via repeated activation of Button 4 [MENU] all Menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

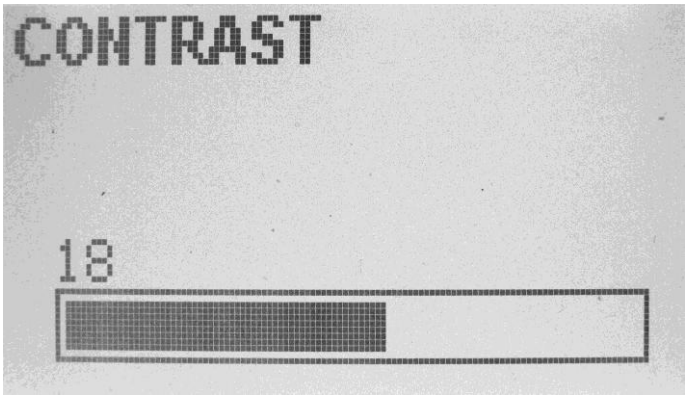
Brightness Sidelight



Buttons 1 [UP] and 2 [DWN] change the brightness of the side lighting of the Petri dish.
Button 3 [NEXT] has no function.
Button 4 [MENU] selects the next Menu function, CONTRAST (viewing angle and contrast of the gauge).
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.

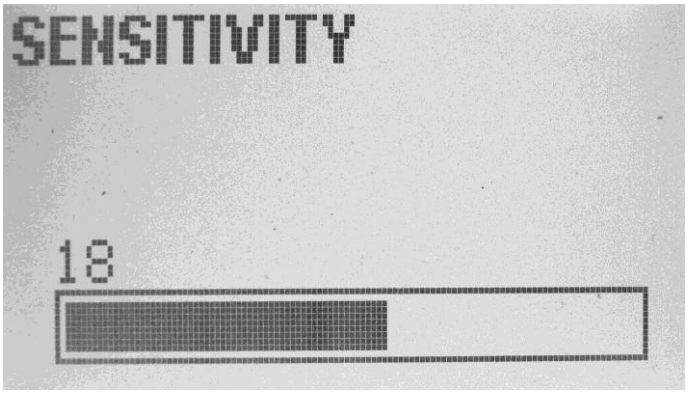
(> 1s) causes a direct return to the SINGLE-MODE.

Contrast



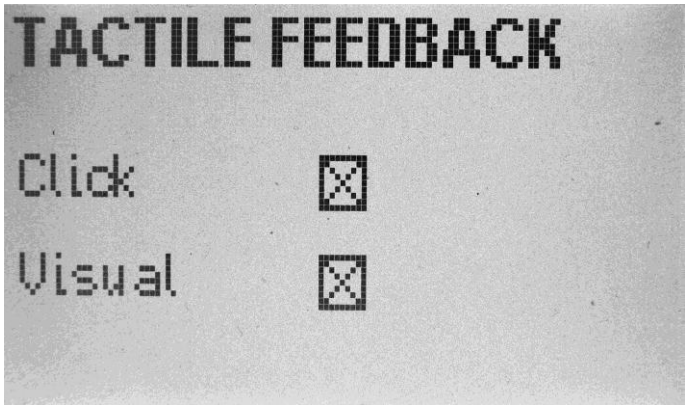
Buttons 1 [UP] and 2 [DWN] adjust the contrast of the display to the current viewing angle.
Button 3 [NEXT] has no function.
Button 4 [MENU] selects the next menu function, SENSITIVITY (sensitivity of the plate).
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Sensitivity



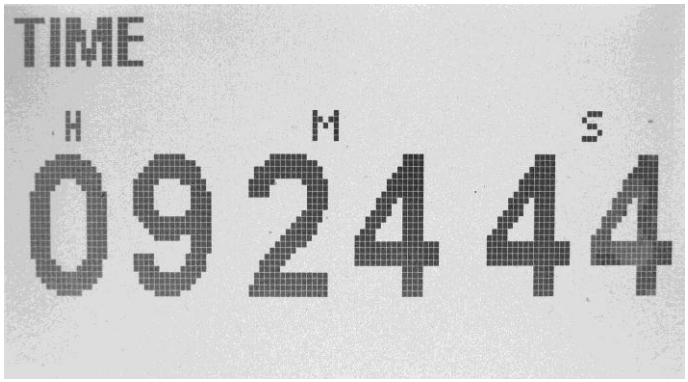
Button 1 [UP] and 2 [DWN] change the responsiveness of the pressure sensors of the plate.
Button 3 [NEXT] has no function.
Button 4 [MENU] selects the next
Menu function, SET TIME.
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Tactile Feedback



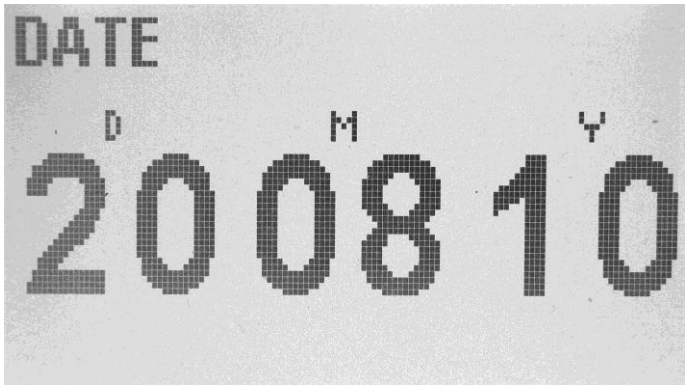
With Tactile Feedback the counting is shown acoustically and/or optically.
Button 1 [UP] Switches the acoustic feedback (click) on and off.
Button 2 [DWN] Switches the optical feedback (blinking of the dish lighting) on and off.
Button 3 [NEXT] has no function.
Button 4 [MENU] selects the next menu function, SET TIME.
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Set Time



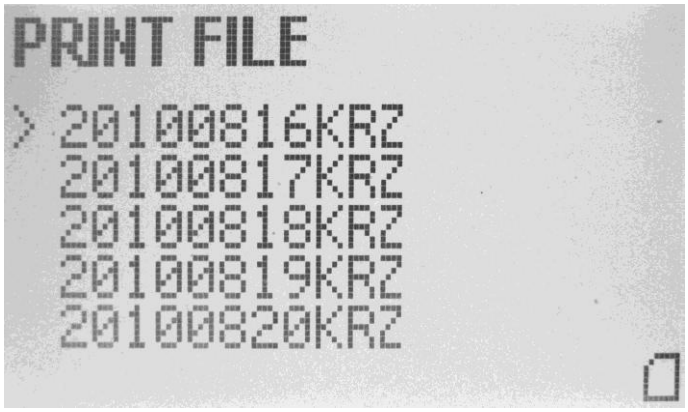
As long as neither of Button 1 [UP] and 2 [DWN] is pressed, the clock will run again.
Button 3 [NEXT] is used to select the changed value.
Buttons 1 [UP] and 2 [DWN] set the hours and minutes. Thereby the seconds are set to 00 and the clock stopped.
Button 2 increases the minutes. Thereby the seconds are set to 00 and the clock stopped.
Button 4 [MENU] selects the next Menu function, SET DATE.
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Set Date



Using Button 3 [NEXT] you can select the value that is to be changed.
Buttons 1 [UP] and 2 [DWN] are used to set the year, month and day.
Button 4 [MENU] selects the next menu function, SETUP PRINTER (not yet implemented).
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Print File

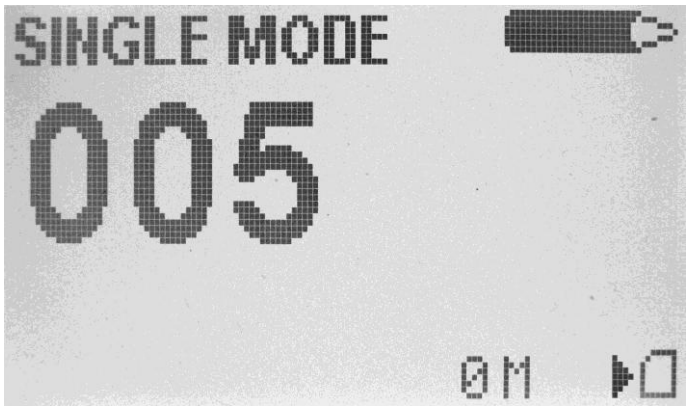


In this menu the file that is to be printed is chosen. Buttons 1 [UP] and 2 [DWN] show all files with the ending .krz one after the other. Button 6 [PRINT] prints the chosen file via the printer interface RS232.
Button 4 [MENU] selects the next menu function, SINGLE MODE.
Via repeated activation of Button 4 [MENU] all menu positions are shown one after the other.
Continued pressing of Button 4 [MENU] (> 1s) causes a direct return to the SINGLE-MODE.

Example of a print out

2010.07.27 08:51.19 SM 002
2010.07.27 08:51.24 SM 003
2010.07.27 08:51.30 SM 004
2010.07.27 09:30.22 MM01 005 Avg 005
2010.07.27 09:30.27 MM02 006 Avg 005
2010.07.27 09:38.59 MM01 006 Avg 006
2010.07.27 09:39.09 MM02 006 Avg 006
2010.07.27 09:44.19 MM01 001 Avg 001
2010.07.27 09:44.22 MM02 002 Avg 001

Saving the data



Data is saved on an SD Card
(FAT16, max. 2GB).
So long as a correctly formatted SD Card is inserted, an SD Card symbol appears in the bottom right of the display
An arrow points to the card while saving.

Naming Files

Each day a new file is created with the following identification:

YYYYMMDD.KRZ
For example 20100727.KRZ

Example of a Single-Mode record:

08:51.19 SM 123
08:51.24 SM 456
08:51.30 SM 789

Example of a Multiple-Mode record:

13:56.32 MM01 443 Avg 443

13:56.33 MM02 491 Avg 467
13:56.35 MM03 506 Avg 480
13:56.37 MM04 587 Avg 507

File format

The files can be read with a text editor.

USB-B interface

For communication with the data processing program on the PC

RS232 interface

Serial print-out of a selected file to a serial printer.

Data management via PC

Purpose

Via the USB-interface a PC with management software can be connected. Thereby the files with the values can be transmitted from the SD-Card of the Colony Counter to the PC.

Management software

The management software is an independent program with a windows-like user interface.

Functions

- Establish connection with the colony-counter
- Show index of the SD-Card
- Selection of the files to be loaded
- Transfer of files to the PC and saving to the hard disk
- Display the contents of the files
- Printing of the files via the connected Windows printer

Getting started

Once the installation instructions have been followed – you're ready to start it is as simple as that.

Operation

1. **Connect Colony Counter to the mains power.**
2. **Put Petri dish on the counting plate (use a reduction ring if necessary)**
3. **Press the function button next for about 1 second to zero the display.**
4. **To count the colonies, mark them with VWR marker. The plate is sensitive to pressure, so each**

mark will be counted and acknowledged with an audible sign. Note final result.

5. **Remove counted Petri dish and insert next Petri dish**
6. **Follow the points 2 to 4 once again to count colonies from another Petri dish**
7. **After having finished working switch off Colony Counter**

Remark:

After five minutes not use the Colony Counter goes to standby

Troubleshooting



- **Repair work must only be carried out by authorized service people.**
- **Disconnect mains plug. before repairing**

Problem	Cause	Solution

Maintenance and cleaning

The VWR Collection Colony Counter STAR COUNT STC 1000 does not require a special maintenance except an occasional cleaning and possibly a replacement of the ring lamp.

Cleaning

1. **Clean the Colony Counter occasionally with a moist cloth (do not use solvents)**
2. **Aseptic cleaning: Alcohol may be used for aseptic cleaning**

Open the instrument

1. **Disconnect mains plug**
2. **Remove magnifying glass**
3. **Remove the 6 screws (upper housing part). With a screw driver**
4. **Remove upper part from lower part and lay aside**

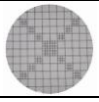
Close the instrument

1. **Place upper part on lower part and tighten fixing screws**
2. **Assemble magnifying glass**
3. **Connect mains plug**
4. **Check instrument for perfect function!**

Optional equipment

Description	Quantity	Cat. No.	Picture
Thermo printer for Col. Counter STC 1000	**1**	**710-0711**	
Printer cable	**1**	**710-0712**	
Memory card	**1**	**710-0719**	
External counting marker	**1**	**710-0717**	
Software and Cable	**1**		

Accessories and spare parts

Description	Quantity	Cat. No.	Picture
Water proof marker applicable device for external counting marker	**1**	**710-0716**	
Magnifier glass 2 x for STC 1000	**1**	**710-0713**	
Wolffhügel grid. (area fields: 1cm² and 1/9 cm²)	**1**	**710-0718**	
External power supply	**1**	**710-0720**	
Adapter for Petri dishes DIAM 120/90 mm	**1**	**710-0721**	
Adapter for Petri dishes DIAM 120/50 mm	**1**	**710-0722**	
Adapter for Petri dishes DIAM 120/60 mm	**1**	**710-0723**	
Adapter for Petri dishes DIAM 120/80 mm	**1**	**710-0724**	
Adapting elements for different Petri dishes sizes	**1**	**710-0725**	

Technical service

Web Resources

Visit the VWR's website at www.vwr.com for:

• Complete technical service contact information

• Access to VWR's Online Catalogue, and information about accessories and related products

• Additional product information and special offers

For information or technical assistance contact your local VWR sales office.

Warranty

VWR International warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. If a defect is present, VWR will, at its option, repair, replace, or refund the purchase price of this product at no charge to you, provided it is returned during the warranty period. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, or from ordinary wear and tear.

For your protection, items being returned must be insured against possible damage or loss. This warranty shall be limited to the replacement of defective products. IT IS EXPRESSLY AGREED THAT THIS WARRANTY WILL BE IN LIEU OF ALL WARRANTIES OF FITNESS AND IN LIEU OF THE WARRANTY OF MERCHANTABILITY.

Equipment disposal



This equipment is marked with the crossed out wheeled bin symbol to indicate that this equipment must not be disposed of with unsorted waste. It is your responsibility to ensure that this product is correctly disposed of at the end of it's life by handling it over to an authorised facility for separate collection and recycling. Note! You are legally obliged to decontaminate the equipment of all potential biological, chemical and/or radiological contamination, so as to protect the people involved in the disposal and recycling from any potential. For more information about where you can drop off this unit, contact your local dealer.

By doing so, you will be helping to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Declaration of conformity

Colony Counter Star-Count model STC 10000 complies with the requirements of the of the following European Council Directives and carries the CE mark:

89/336/EWG Electromagnetic compatibility

93/68/EWG Electrical Safety for low voltage equipment

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