HydroMet



User Manual

SRG

KISTERS

Empowering decisions of tomorrow

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I Disclaimer

The information provided in this manual was deemed accurate as of the publication date. However, updates to this information may have occurred.

This manual does not include all of the details of design, production, or variation of the equipment nor does it cover every possible situation which may arise during installation, operation or maintenance. KISTERS shall not be liable for any incidental, indirect, special or consequential damages whatsoever arising out of or related to this documentation and the information contained in it, even if KISTERS has been advised of the possibility of such damages.

Any errors found in any KISTERS product should be reported to KISTERS where every effort will be made to quickly resolve the problem.

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This document is public.

II Scope of Delivery

- 1 × Catch #SRG01
- 1 × Collector #SRG02-01
- 1 × Outer enclosure #SRG03
- 1 × Rain measure #SRG04-01

III Safety Instructions

- Read the user manual including all operating instructions prior to installing, connecting and powering up the KISTERS SRG. The manual provides information on how to operate the product. The manual is intended to be used by qualified personnel, i.e. personnel that have been adequately trained, are sufficiently familiar with installation, mounting, wiring, powering up and operation of the product.
- Keep the user manual on hand for later reference!
- If you encounter problems understanding the information in the manual (or part thereof), please consult the manufacturer or its appointed reseller for further support.
- KISTERS SRG is intended to be used in hydrometeorological or environmental monitoring applications.
- Before starting to work, you have to check the functioning and integrity of the system.
  - Check for visible defects on the SRG, this may or may not include any or all of the following: mounting facilities, connectors and connections, mechanical parts, internal or external communication devices, power supplies or power supply lines, etc.
  - If defects are identified that could compromise operational safety, work must be stopped immediately. This applies to defects detected both before work begins and during operation.
- Do not use the KISTERS SRG in areas where there is a danger of explosion.
- The present user manual specifies environmental/climatic operating conditions as well as mechanical and electrical conditions. Installation, wiring, powering up and operating the KISTERS SRG must strictly comply with these specifications.
- Perform maintenance only when tools or machinery are not in operation.
- If guards are removed to perform maintenance, replace them immediately after servicing.
- Never make any electrical or mechanical diagnostics, inspections or repairs under any circumstances. Return the product to the manufacturer's named repair centre. You can find information on how to return items for repair in the relevant section of the KISTERS website.



Disposal instructions: After taking the KISTERS SRG out of service, it must be disposed of in compliance with local waste and environmental regulations. The KISTERS SRG is never to be disposed of in household waste!



Inputs and outputs of the device are protected against electric discharges and surges (so-called ESD). Do not touch any part of the electronic components! If you need to touch any part, please discharge yourself, i.e. by touching grounded metal parts.

1 Introduction

Thank you for choosing our product. We hope you will enjoy using the device.

KISTERS manufactures, sells, installs and operates quality instrumentation, data loggers and communication technology. Products are designed with passion for environmental monitoring and with a deep understanding of the quality, accuracy and robustness needed to fulfil the requirements of measurement practitioners in the field.

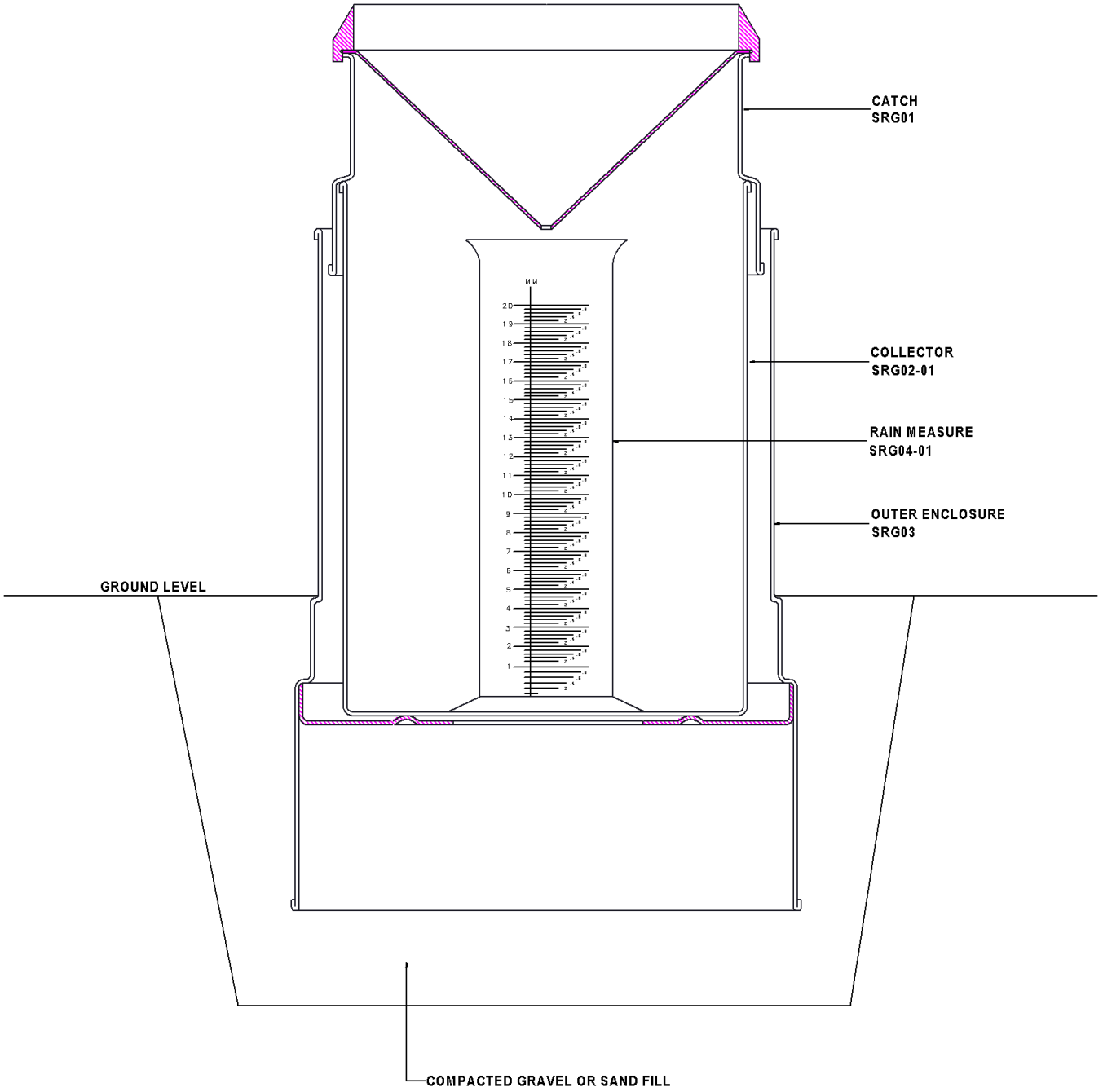
The present User Manual will help you understand, install and deploy the device. If, however, you feel that a particular information is missing, incomplete or confusing, please do not hesitate to contact us for further support!

The Standard Rain Gauge model SRG is recognised as the standard for non recording type rain gauges. The SRG is fully constructed from aluminium except for the rain measure which is made from durable plastic and has a capacity of 20 mm of rainfall. The overflow of rain is collected by a rain gauge collector which can store a volume equivalent to 300 mm of rainfall.

The KISTERS Model SRG is a standard, non-recording rain gauge featuring:

- Catch diameter 203 mm (8 inch)
- Bureau of Meteorology approved rain measure
- Rain measure capacity 20 mm of rainfall
- Smallest increment 0.2 mm of rainfall
- Corrosion resistance
- Collector capacity 300 mm of rainfall
- UV resistance

2 Installation



For more information, see the following subsections:

- Unpacking your SRG Rain Gauge 8
- Choosing the Site 8
- Placing the Gauge 8

2.1 Unpacking your SRG Rain Gauge

Please verify that you have received the items listed in the Scope of Delivery.

To prepare the SRG for installation:

- Lift the unit from the carton and place on secure surface.
- Remove all components from polythene bags.

Your SRG is ready for installation.

2.2 Choosing the Site

Rainfall measurements are intended to be representative of the actual precipitation falling on a given area.

Some of the more important factors which influence the accuracy of the gauge are as follows:

- Site the gauge on level ground. Avoid sloping sites
- Site should have protection from strong winds
- Site should be free of obstructions such as buildings and trees
- Provide suitable ground surface to avoid splashing into the gauge

Wind is the most serious disturbing influence on the gauge, driving rain will fail to reach the gauge if it is placed too close to buildings or trees. On the other hand, if the gauge is exposed to high winds, the rain can be carried away from the gauge by the wind.

A compromise is required to achieve good results. The gauge should be placed at ground level and a distance away from obstructions equal to twice the height of the obstructions.

2.3 Placing the Gauge

Once the site is selected it is a simple matter to mount the gauge.

To do this it is necessary to dig a hole approximately 300 mm diameter and 230 mm deep.

Place a 50 mm bed of compacted fine gravel or coarse sand in the bottom of the hole.

Place the outer enclosure in the hole and check for level, and adjust appropriately then backfill with gravel or sand, compact the fill and recheck level. Ground level should be at the second ridge on the outer enclosure (see diagram shown earlier).

Position the collector in the outer enclosure.

Position the rain measure centrally in the collector.

Place the catch onto the collector.

The immediate area around the gauge should be such that it does not promote splashing into the gauge (grass or mulch).

The gauge is now ready for operation.

3 Configuration

SRG100 is a purely mechanical instrument. No specific configuration is required.

Please follow installation instructions 7.

4 Operation

It is recommended that the gauge be read daily at a fixed time (preferably 9.00 am) after a rainfall event, to the nearest 0.2 mm of rainfall.

To read the gauge it is necessary to lift the catch from the gauge, allowing access to the collector and rain measure.

Carefully remove the rain measure from the collector and read off the amount of rainfall from the graduations on the rain measure. The rain measure is recorded in 0.2 mm of rainfall. The amount of rainfall should be recorded against the date (a rainfall chart is included in this manual).

Dispose of the contents of the rain measure. Replace the rain measure and catch.

In the event of heavy rainfall where greater than 20 mm of rain has fallen, the rain measure will overflow into the collector. To measure this large amount of rainfall it is simply a matter of pouring from the collector into the rain measure and totalling the amounts.

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5 Maintenance

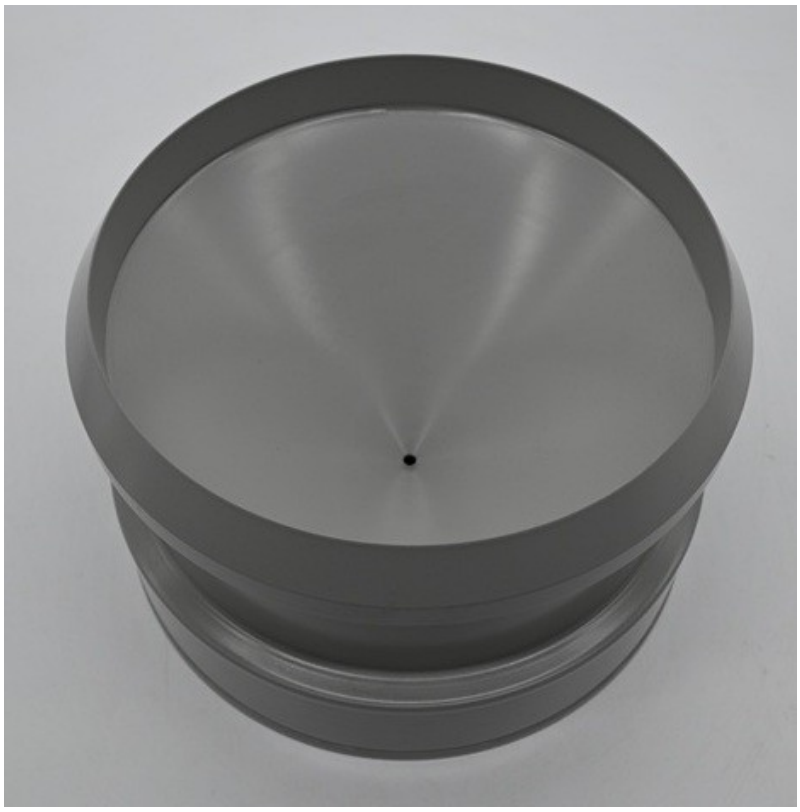
Periodically the following maintenance should be carried out:

- Remove leaves or other material from the catch
- Around the gauge from overhanging grass etc.
- Clean the rain measure and collector
- Inspect the gauge for damage, in particular the catch rim

6 Troubleshooting

If the rain gauge is under-registering or not collecting the desired amount of water, check the following:

- Are the collector funnel and entry hole clean and free from blockages?



- Is the measuring cylinder located in the centre of the collector?



7 Repair

KISTERS precision instruments and data loggers are produced in quality-controlled processes. All KISTERS production and assembly sites in Australia, New Zealand and Europe are ISO 9001 certified. All equipment is factory tested and/or factory calibrated before it is shipped to the client. This ensures that KISTERS products perform to their fullest capacity when delivered.

Despite KISTERS most rigorous quality assurance (QA), malfunction may occur within or outside of the warranty period. In rare cases, a product may not be delivered in accordance with your order.

In such cases KISTERS' return and repair policy applies. For you as a customer, this means the following:

- Contact KISTERS using the Repair Request Form and the Declaration of Contamination made available online:

Region (Language)	Download Link
Asia-Pacific (English)	Repair Request Form (APAC) Declaration of Contamination (APAC)
Europe, the Middle East and Africa (English)	Repair Request Form (EMEA) Declaration of Contamination (EMEA)
Germany (German)	Repair Request Form (DE) Declaration of Contamination (DE)

  In response you will receive a reference number that must be referenced on all further correspondence and on the freight documents accompanying your return shipment.
- Please provide as much information and/or clear instructions within the return paperwork. This will assist our test engineers with their diagnosis.
- Please do not ship the goods prior to obtaining the reference number. KISTERS will not reject any equipment that arrives without reference number; however, it may take us longer to process.

Custom requirements for items sent to KISTERS for warranty or non-warranty repairs: Check with your national customs/tax authorities for details, processes and paperwork regarding tax exempt return of products. Typically, special custom tariff codes are available (such as HS Code = 9802.00) that verify the item is being returned for repair and has no commercial value. Please note that the customs invoice / dispatch documents should also clearly state: "Goods being returned to manufacturer for repair – No Commercial value". It is mandatory to have any returned goods accompanied by a commercial invoice on headed paper. KISTERS reserves the right to charge the customer for time spent rectifying incorrect customs documents.

Note: Please ensure that your goods are packed carefully and securely. Damage that occurs during transit is not covered by our warranty and may be chargeable.

8 Technical Data

Material	Aluminium powder-coated APO grey
Catch	203 mm (8-inch) diameter collector
Capacity	300 mm of rainfall
Rain Measure Capacity	20 mm of rainfall with smallest increment of 0.2 mm
Packed Dimension	560 × 300 × 300 mm
Packed Weight	4 kg

9 Obligations of the Operator and Disposal

This chapter contains the following subsections:

- Obligations of the Operator 15
- Dismantling / Disposal 15

9.1 Obligations of the Operator

European Union

In the Single European Market it is the responsibility of the operator to ensure that the following legal regulations are observed and complied with: national implementation of the framework directive (89/391/EEC) and the associated individual directives, in particular 2009/104/EC, on minimum safety and health requirements for the use of work equipment by employees at work.

Worldwide

Regulations: If and where required, operating licences must be obtained by the operator. In addition, national or regional environmental protection requirements must be complied with, regardless of local legal provisions regarding the following topics:

- Occupational safety
- Product disposal

Connections: Local regulations for electrical installation and connections must be observed.

9.2 Dismantling / Disposal

When disposing of the units and their accessories, the applicable local regulations regarding environment, disposal and occupational safety must be observed.

Before dismantling

- Electrical Devices:
  - Switch off the units.
  - Disconnect electrical appliances from the power supply, regardless of whether the appliances are connected to the mains or to another power source.
- Mechanical devices:
  - Fix all loose components. Prevent the device from moving independently or unintentionally.
  - Loosen mechanical fastenings: Please note that appliances can be heavy and that loosening the fastenings may cause them to become mechanically unstable.

Disposal

Operators of old appliances must recycle them separately from unsorted municipal waste. This applies in particular to electrical waste and old electronic equipment.

Electrical waste and electronic equipment must not be disposed of as household waste!

Instead, these old appliances must be collected separately and disposed of via the local collection and return systems.

Integrated or provided batteries and accumulators must be separated from the appliances and disposed of at the designated

collection point. At the end of its service life, the lithium-ion battery must be disposed of according to legal provisions.

EU WEEE Directive

As players in the environmental market, KISTERS AG is committed to supporting efforts to avoid and recycle waste. Please consider:

- Avoidance before recycling!
- Recycling before disposal!

This symbol  indicates that the scrapping of the unit must be carried out in accordance with Directive 2012/19/EU. Please observe the local implementation of the directive and any accompanying or supplementary laws and regulations.

10 Appendices

This chapter contains the following subsection:

- Chart 17

10.1 Chart

Date	JAN mm	FEB mm	MAR mm	APR mm	MAY mm	JUN mm	JUL mm	AUG mm	SEP mm	OCT mm	NOV mm	DEC mm	Date
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31													31
Totals													
No. of Days													
Totals	Since Jan 1	2 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	3 Months	Year	
Average All Year													

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