(TRIENS

Warranty Policy

Equipment manufactured by TRIENS / Sankyo Reels, Inc. is warranted against defects for a period of one year from the date of purchase, except the expendables. If under normal use and wear, a product is proven defective TRIENS' satisfaction, TRIENS will at its sole discretion, repair or replace the defective product. No warranty shall be made for products used for purposes other than those intended. We further disclaim any liability, with exception to previously mentioned replacement, for damages that might arise from the use of installation

of TRIENS equipment or products. Warranty will be void in below cases.

O Under abnormal use, improper maintenance and storage.

Product is altered

- O Replacement of expendables such as hose, O ring, rubber parts etc.
- O Trouble caused by using un-genuine replacement parts
- O Trouble caused by dismantle, alter or repair the product by not properly trained persons
- O Trouble caused by improper installation. Our product is designed for indoor use only. Warranty will be void for outdoor installation.
- O Trouble caused by using non-intended fluid for its purpose.
- O Touble caused by fire, earthquake, flood or any other Act of God.
- O Warranty may not be applied if model name and serial number is not provided to manufacturer.
- In any other cases if we determine that the product is not covered by the warranty based on reasonable grounds.

Model	
Serial Number	
Date of Purchase	
Your Distributor	

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Oval Gear Fluid Meter

User Manual

Model T102360

ntroduction	

Safety Precautions	P.2
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How to Use	
Installation	P.5
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Troubleshooting_	
Maintenance	P.10
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This manual contains the precautions and basic usage of the product in order to prevent injury to people and / or damage their surroundings. Please read the instruction manual carefully before install and use the product. Make sure that only gualified personnel is installing the product. If any problem occurs please contact your distributor.

2021.11

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Safety Precautions

Meaning of WARNING and CAUTION marks

Follow precautions and instru



This mark indicates a potential hazardous situation which failure to comply may lead to death or serious injury.

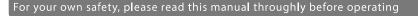


This mark indicates a potential hazardous situation which failure to comply may lead to personal injury, product damage and/or property damages.

Prohibition Marks



Direction Marks



• Disclaimer:

The user should read and understand all information provided in the user manual. The information in this manual is carefully checked and is entirely reliable and consistent with the product described in this user manual.

For your information TRIENS cannot take any responsibility for inaccuracies or any liability coming out of the application and use of this product. Use the product according to the specification provided by TRIENS.

• Do not use the malfunctioned product

Stop using the product immediately and ask your dealer for repair

• In Case of Trouble

EXAMPLE)

- Smoke comes out
- Foreign materials come inside
- Abnormal sound and/or smell
 Dropped the product or products and parts are damaged
- (1) Remove supply line pressure

⁽²⁾ Stop using the product and ask your dealer for repair

3 Do not operate the product until it is repaired.

Trouble shooting

Symptom	Cause	Counter Measure
	non drip nozzle is closed	Open the tip nozzle
N	shut off valve on piping is closed	Open the shut off valve
No dispense		Check the pump operation
		check the fluid tank
	Pump setting is incorrect	Check the supply pump setting
Dispense weak	Clogged by particles	
Leakage from the inside of grip handle	Valve O-ring worn out	Replace O-ring
		Consult with your distributor
Display is unreadable	Display board malfunction	Consult with your distributor
	Battery low	Replace with new battery (Page 10)
No display	Battery inserted in wrong direction	Check the direction
	Circuit board malfunction	Consult with your distributor
Leak from tip nozzle	Tip nozz l e is open	Close the nozzle
	Tip nozzle worn out	Replace the tip nozzle Consult with your distributor
Displays the incorrect quantity	Incorrect correction factor setting	Calibrate the correction factor (Page 8)

After sale service

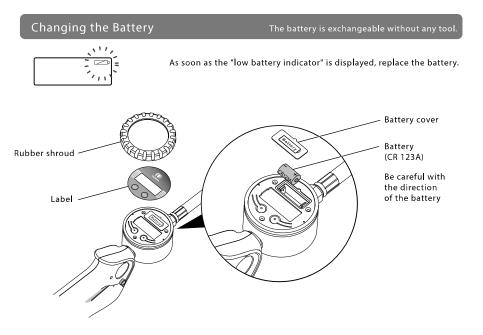
When product is in trouble

Refer to Trouble shooting on page 10

Still in trouble

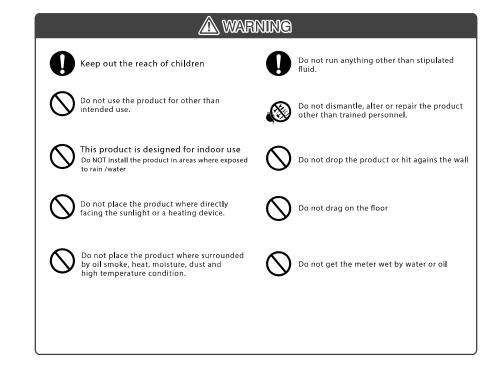
Contact dealer for repair according to the product warranty service program.

Maintenance and Trouble Shooting



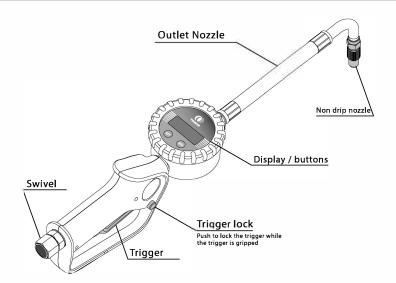
Take out the rubber shrout and remove the label. Under the label you will find the battery cover which you can easily remove. Take out the empty battery and replace it by a new CR 123A battery. Put in place the battery cover, place the label accordingly and fix the rubbershrout again on top of the meter.

Before operating the product, read this user manual thoroughly and keep it close to you for future reference.



Parts and Accessories

Make sure all items listed below are contained in the box upon delivery.



Specification

	Oval gear fluid meter
Model	T102360
Swivel Thread	G 1/2" (Female)
Suitable Fluids	Water Base Product
Working Pressure	0.035 ~ 8.0 MPa (0.35 ~ 80 bar)
Working Temperature	-10°C~+60°C
Measuring range	1~40L/m
Viscosity	8-5000mPa·S
Measuring Accuracy	± 0.2%
Measurement range	0.00~999.99L
Power source	CR123A 1PC
IP rating	IP65
RoHS	RoHS Compliant
Length	600 mm
Weight	2.0 Kg

Accessories

Contact your dealer for any missing parts.



User Manual 1 pc

Settings (continued)

• Check the Cumulative dispensed quantity

 This menu shows you the non resettable Totalizer. Maximum value of total counter on the start display is 40,000 L. Over the amount will be override and starts again from 0, and the number of overflow increases 1.

1. Press long SET Unit starts blinking



2. Press short RES 4times Display changes UNIT®FACT®TEST®PRN®TOTAL.



Display Test

1. Press long SET Unit starts blinking



2. Press short RES 2 times Display changes UNIT@FACT@TEST

LESE

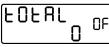
- Check the software version
- 1. Press long SET
- Unit starts blinking



2. Press short RES 3 times Display changes UNIT@FACT@TEST@PNR



3. Press short SET to see the number of overflow



- i.e.) If the number of overflow shows 2 and total counter shows 15400 L .Cumulative dispensed quantity is 2 * 40k L = 80.000 L + 15400 L = 95.400 L
- 3. Press short SET Press short SET to automatic test of all digits. Press long RES to return to start display.

3. Press short RES Press short RES 2 times. Display changes UNITØFACTØTEST

How to Use

Settings (Continued)

• Correction factor calibration

Attention: The range is limited between 0,7 and 1,3. If you use higher or lower values, the display will show you the maximum value HI or LOW. It is not accepting a value out of the range.

- It is important and strongly recommended to measure the reference quantity with an approved and appropriate measuring device.
- Error rate = (measured Quantity) / (dispensed Quantity) Correction factor = (current value) * (Error rate)

• Current correction factor Press short SET to see the programmed correction factor.

1. Press long SET Unit starts blinking



2. Press short RES Fact starts blinking



3. Press short SET First digit starts blinking



4. Press short SET first digit increases on each press. Set to the desired value.

(
Quantity dispensed: 6,00 liters Quantity displayed : 5,95 liters Error rate: 5,95/6,00 = 0,9917
The existing correction factor is 1.00 (factory set Calculation: 1 x 0,9917 = 0,9917
2) recalculation of an existing correction factor showing on the display
Quantity dispensed: 6,00 liters Quantity displayed : 6,02 liters Error rate : 6,02/6,00 = 1,003

ting)

1) calculation based default settings

(Factor: 1,000)

The existing correction factor is 0,9917 Calculation: 0,9917 x 1,003 = 0,9947

5. Press short RES Second digit starts blinking



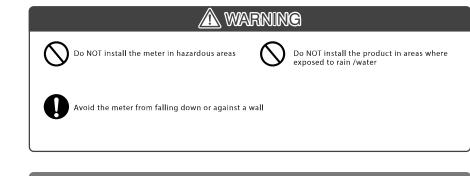
7. Press short RES Third digit blinking. set the 2nd and 3rd digits to the desired value same as 4.



6. Press long RES press long RES to confirm the value and back to start display.

Installation

Make sure that only qualified personnel is installing the product.



Preparation

 Tools
 Adjustable wrench (250 / 300mm) 1 each

Preparing

• Flush the pipings to make sure no particles inside to avoid the damage to the product.

*Please make sure that all technical data of the installation match with those for the meter described in previous page

• For Relocation and Replacement

• Close the supply valve and release the pressure first to avoid injury and/or leakage.

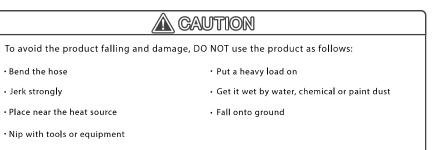
How to Install

Connect the hose Please check all connections and make sure no leakage.



If any problem occurs please contact your distributor.

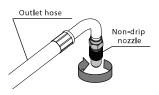
How to Use



How to Operate

1. Open the non drip nozzle

Turn the non drip nozzle clockwise to open fully.



Non drip nozzle is to prevent leakage. open fully before dispense. Trigger it while nozzle closed may cause damage on the non drip nozzle.

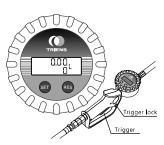
2. Grip the trigger and dispense

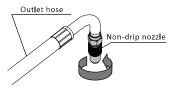
Meter can measure from 0.00 to 999.99L at a time. Check the display and release the trigger at the desired amount.By pressing lock button while dispense, the trigger will be locked. To release, grip the trigger again.

*If the display is showing other than 0.00, press RES to reset before dispense.

3. Close the non drip nozzle

Turn the non drip nozzle clockwise to open fully.





Daily Checkup

• Before Operate

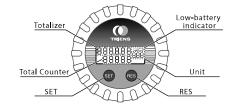
Check for damage, connection and leakage.

• After the use

Wipe the oil, dust and dirt with cloth. Check for damage, connection and leakage.

Settings

ltem	Default setting
Last Dispense	0
Unit of Measure	L (Liter)
Correction Factor	1.000
Total Counter	0
Number of Overflow	0



3.Press RES short

4. Press short SET

The unit changes in order of L 🛛 GAL

Press short SET to confirms the unit of measures.

☑ QT ☑ PT ☑ L... in each press,

• Wake up The display goes to sleep mode while not in use.

The meter can be waked up through pressing SET or RES or if the meter is receiving
 any pulse by starting dispensing

• Change UNIT of MEASURES

1. Press SET long Unit starts blinking



2. Press SET short Current unit starts blinking



• Display Last Dispense Amount

1. Press long RES The last dispense is shown with the remark LAST on the display.



