



Drop in Replacement

The Mass Flow Advantage.



						Power supply				
	Touch Display¹	Auto display alignment (position sensor)	Choose between multiple home screens	Totalizer	Multigas (up to 3)	Manual valve	Alarm functions	Mirco-USB power supply (DIN62684)	Battery power	24 Vdc supply
compact meter GCM	•	•	•	•	0			•	•	0
compact regulator GCR	•	•	•	•	0	•		•	•	0
compact switch GCS	•	•	•	•	0		•			•
compact all-in GCA	•	•	•	•	0	•	•			•

¹backlight not available for battery use; backlighted only with external power supply (Micro-USB or 24 Vdc)

Option

Rotameters also known as "Sight Glass" Variable Area (VA) meters, are used across nearly every industry where economical gas flow metering and flow regulation is required.

Rotameters are volumetric flow meters and only capture the gas flow volume, not gas mass flow rate. All volumetric flow meters and regulators are sensitive to gas pressure and temperature changes—a pressure change of just 1 Bar generates flow rate error of up to 50%.

We designed our
RedyCompact to be the
ultimate alternative. A true
thermal mass flow meter,
RedyCompact is for those
that want the highest
accuracy and repeatability
and need a drop-in
replacement for a Rotameter.

Battery powered, with a large touch-screen, RedyCompact is easy to read from a distance. Regulate flow rate with the high-resolution valve by dialing in your manual setpoint. Two standard AA batteries give the meter months of operation. An optional Micro-USB power plug is also available.

Superior Physics for Lifetime No-Drift Warranty

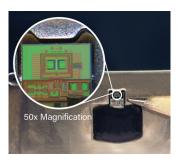
RedyCompact comes with our Lifetime No-Drift Sensor Warranty made possible from highprecision MEMS (Micro-ElectroMechanical Systems) technology utilizing an advanced, ultra-stable no-drift CMOS (Complementary Metal Oxide Semiconductor) sensor.

The use of MEMS techniques allows both electronic circuits and mechanical devices to be manufactured on a silicon chip, similar to the process used for integrated circuits.



Making the Ultimate Thermal OEM Mass Flow Controller

At the macro level, RedyCompact can be conceptualized in five core technologies, each of which contributes to unparalleled accuracy, adaptability and reliability.



Gas Mass Flow Sensor

Accurate and Reliable MEMS Technology

Our Lifetime No-Drift Sensor Warranty is backed by highprecision MEMS technology utilizing an advanced CMOS sensor for stable gas mass flow rate measurement.



Large Touch-Screen

Easy Viewing of Data

Intuitive navigation at the touch and swipe of a finger, the large screen is visible from across the room. A big improvement over hard to read sightglass rotameters.

Battery Opertated

Off the Gtrid

Operate for months on a single double AA battery.



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Flow Control

Precision Needle Valve

Get precise mass flow control with the needle valve dial located on the front of the instrument

Advanced Calibration

NIST-Traceable

Each unit is calibrated over its entire flow range using real gas to assure accuracy and repeatability over the life of the device. A fully automated system capable of calibrating hundreds of units at once eliminates any human error during the calibration process.



Auto-Calibration System

HIGHLIGHTS

Compact Footprint

As the name suggests, RedyCompact has a small footprint that accommodates drop-in replacement for any Rotameter in the market.

Touch-Screen Display

The touch screen display offers intuitive navigation. The many variables that make the unit flexible are easily accessible. Automatic display alignment is possible due to a position sensor.

No-Drift Warranty

Lifetime No-Drift Sensor Warranty. If drift occurs, instrument will be repaired or replaced free of charge.

Flow Units

Choose between a large number of standardized and normalized flow units from Imperial, US customary and SI, all with user adjustable reference conditions.

Alarm Functions

The following triggers are available: Low alarm, high alarm, window alarm and totalizer alarm. The alarms can be configured with different parameters: Normally open, normally closed, hysteresis,



auto/manual/ remote reset, delay and alarm duration.

Device Information & Notifications

Display of complete device information including all configuration settings. Alerts and notifications show up on the home screen.

Panel Mount

Two mounting kits are available for convenient mounting into an instrument panel..



Warranty

3-year operating warranty.

No-Drift Warranty

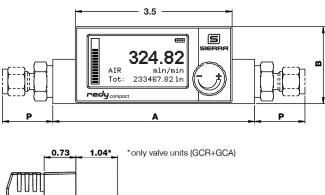
Lifetime No-drift Sensor Warranty. If drift occurs, instrument will be repaired or replaced free of charge.

Warranty

3-year operating warranty.

APPLICATIONS

- Burner control (furnace construction)
- · Welding (welding gas monitoring)
- · Leak measurements (quality, environment)
- · Coating (equipment construction)
- Regulation of gaseous atmospheres (biotechnology)
- Measurement of gas consumption (hospitals)
- Test equipment (production maintenance)
- Flow rate monitoring (laboratories)
- · Cutting (steel sheets)
- Billing
- · Analytical equipment
- Aeration / sparging (food products, ice cream / edible oils)
- · Blanketing (food)
- Fermentation (food, biotechnology, pharma)



- 0	1.04*	*only valve units (GCR+GCA)
000		J
- C -	`Micro-	USB Interface (DIN 62684)

		Lengtl	Length of fitting		
Type/Body	Α	В	С	D	Р
GCM 1/4" GCR 1/4" GCS 1/4" GCA 1/4"	4.49	1.73	0.98	1.73	We offer a range of different inlet/outlet fittings.
GCM 1/2" GCS 1/2"	6.3	2.13	1.38	2.13	
GCR ½" GCA ½"	8.15	2.13	1.38	2.13	

TECHNICAL DATA

INSTRUMENT TYPES



Compact Meter GCM
Mass Flow Meter
Compact Switch GCS
Mass Flow Meter with Alarm Functions



Compact Regulator GCR
Mass Flow Meter with Manual Valve
Compact All-in GCA
Mass Flow Meter with Alarm Functions & Valve



Compact G ½" versions For 1/2" size with Manual Valve Valve is Flange Mounted

MEASURING RANGES	Tura Managina Danga (Air)					
(full scale freely selectable)	Type Measuring Range (Air)					
	GCX / 1/4" from 0 27 SCCM to 0 64 SLPM					
DEDECOMANCE DATA	GCX / ½" from 0 65 SLPM to 0 480 SLPM					
PERFORMANCE DATA						
Media (real gas calibration)	Air, $O_2^{(2)}$, $N_2^{(2)}$, He, Ar, CO_2 , H_2 , CH_4 , C_3H_8 (other gases and gas mixtures on request) 2O_2 & N_2 are calibrated with Air					
Accuracy (air & equivalents)	Eco: \pm 2.0% of full scale; ranges > 200 SLPM \pm 3.0% of full scale					
	Special: ± 1.0% of full scale up to 50 SLPM					
Turndown Ratio	Eco: 1:50 Special:1:100					
Response Time	Max. 300 msec (depending on filter settings)					
Flow Update by Sensor	40 msec (battery mode 500 msec)					
Display Update	240 msec (battery mode 500 msec)					
Repeatability	± 0.5% of full scale					
Longterm Stability	< 1% of measured value / year					
Power Supply Meter GCM & Regulator GCR	Standard AA battery (lifetime in months depending on operation) or					
	Micro-USB power supply (DIN 62684)					
	Option: External power +830 Vdc (power consumption max. 120mA)					
Operation Pressure	3 - 160 psia (0.2 - 11 bara)					
Temperature (environment/gas)	32 - 122°F (0 – 50°C)					
Materials	Anodized aluminum, optional stainless steel electropolished					
Seals	FKM, optional EPDM (FDA)					
Pressure Sensitivity	<0.014% / psi (<0.2% / bar) of reading (typical N2)					
TemperatureSensitivity	<0.012% FS measuring range type per 1°F (<0.025% per 1°C)					
Warm-up Time	<1 sec. for full accuracy					
INTEGRATION						
Display	Touch & swipe display (128x64 px) with automatic position adjustment (position sensor)					
	Backlighted only with external power supply (Micro-USB or 24 Vdc)					
Process Connection	G½" (BSPP* female) up to 64 SLPM, G½" (BSPP* female) up to 480 SLPM *British Standard Pipe Parallel					
	None required					
Inlet Section	·					
Inlet Section Mounting Orientation	Any position (consult manufacturer above 73 psi / 5 bar or vertical mounting)					
Mounting Orientation	Any position (consult manufacturer above 73 psi / 5 bar or vertical mounting)					
Mounting Orientation Connection Cable	Any position (consult manufacturer above 73 psi / 5 bar or vertical mounting)					
Mounting Orientation Connection Cable SAFETY	Any position (consult manufacturer above 73 psi / 5 bar or vertical mounting) For external power supply: 6.5 ft with fly leads					
Mounting Orientation Connection Cable SAFETY Test Pressure	Any position (consult manufacturer above 73 psi / 5 bar or vertical mounting) For external power supply: 6.5 ft with fly leads 240 psia (16 bara)					

OPTIONS







RedyCompact Series

Meter					
meter.	IVI	M			
Regulator – With manual valve	R				
Switch – With alarm	S				
All-In – With manual valve & alarm	Α				
Divider A, up to 640 SCCM, 1/4" Body		A X			
Divider B, up to 6,400 SCCM, 1/4" Body		вх			
Divider C, up to 64 SLPM, 1/4" Body		сх			
Divider D, up to 480 SLPM, ½" Body	D X				
Eco ($\pm 2.0\%$ of FS / > 200 SLPM $\pm 3.0\%$ of FS, 1:50)	E				
Special (±1.0% of FS, 1:100 / up to 50 SLPM)	S				
Customer-specific / OEM	К				
Aluminium, FKM			А		
Aluminium, EPDM		В			
Stainless steel, FKM	S		S		
Stainless steel, EPDM	Т				
Customer-specific / OEM			К		
Battery supply		В		3	
External supply 24 Vdc, 6.5 ft			F		
Customer-specific / OEM		К		<	
Nickel-plated brass				Α	
Stainless steel				s	
Customer-specific / OEM				К	
No valve				N	
NS 1.0				1 0	
NS 1.5				1 5	
NS 2.0				2 0	
NS 2.5				2 5	
NS 3.0				3 0	
NS 3.5				3 5	
NS 4.0				4 0	
NS 6.0				6 5	
Valve not defined				8 8	
Valve mounted				9 5	
Customer-specific / OEM				9 9	
No valve				0 0	
	Switch – With alarm All-In – With manual valve & alarm Divider A, up to 640 SCCM, ¼" Body Divider B, up to 6,400 SCCM, ¼" Body Divider C, up to 64 SLPM, ½" Body Divider D, up to 480 SLPM, ½" Body Eco (±2.0% of FS /> 200 SLPM ±3.0% of FS, 1:50) Special (±1.0% of FS, 1:100 / up to 50 SLPM) Customer-specific / OEM Aluminium, FKM Aluminium, EPDM Stainless steel, FKM Stainless steel, EPDM Customer-specific / OEM Battery supply External supply 24 Vdc, 6.5 ft Customer-specific / OEM Nickel-plated brass Stainless steel Customer-specific / OEM No valve NS 1.0 NS 1.5 NS 2.0 NS 2.5 NS 3.0 NS 3.5 NS 4.0 Valve not defined Valve mounted Customer-specific / OEM	Switch – With alarm AII-In – With manual valve & alarm Divider A, up to 640 SCCM, ¼" Body Divider B, up to 6,400 SCCM, ¼" Body Divider C, up to 64 SLPM, ½" Body Divider D, up to 480 SLPM, ½" Body Eco (±2.0% of FS /> 200 SLPM, ½" Body Eco (±1.0% of FS, 1: 100 / up to 50 SLPM) Customer-specific / OEM Aluminium, FKM Aluminium, EPDM Stainless steel, EPDM Customer-specific / OEM Battery supply External supply 24 Vdc, 6.5 ft Customer-specific / OEM Nickel-plated brass Stainless steel Customer-specific / OEM No valve NS 1.0 NS 1.5 NS 2.0 NS 2.5 NS 3.0 NS 3.5 NS 4.0 NS 6.0 Valve mounted Customer-specific / OEM	Switch – With alarm S All-In – With manual valve & alarm A Divider A, up to 640 SCCM, %" Body B X Divider B, up to 6,400 SCCM, %" Body B X Divider C, up to 64 SLPM, %" Body C X Divider D, up to 480 SLPM, %" Body D X Eco (±2.0% of FS /> 200 SLPM ±3.0% of FS, 1:50) E Special (±1.0% of FS, 1: 100 / up to 50 SLPM) S Customer-specific / OEM K Aluminium, FKM K Aluminium, EPDM Stainless steel, FKM Stainless steel, EPDM Customer-specific / OEM Customer-specific / OEM D Nickel-plated brass Stainless steel Customer-specific / OEM D No valve NS 1.0 NS 1.5 NS 2.0 NS 2.5 NS 3.0 NS 3.5 NS 4.0 Valve not defined Valve mounted Customer-specific / OEM	Switch - With alarm	



sierrainstruments.com
GLOBAL EMAIL: INFO@SIERRAINSTRUMENTS.COM

NORTH AMERICA

5 Harris Court, Building L / Monterey, CA 93940 / USA 831.373.0200

EUROPEBijlmansweid2 / 1934RE Egmond aan den Hoef / The Netherlands
ph +31 72 5071400

ASIA-PACIFIC
Second Floor Building 5 / Senpu Industrial Park
25 Hangdu Road Hangtou Town / Pu Dong New District
Shanghai, P.R. China Post Code 201316
ph +8621 5879 8521/22