



GCS400 Series

Load Measurement

Compact, Low Profile Cylinder Scales

Overview

Brooks Instrument's GCS400 Series cylinder scales are used to accurately measure the remaining mass of liquid or gas in supply vessels. They employ a sealed load cell and heavy gauge stainless steel housing for exceptional durability and reliability in all applications. The GCS400 Series are additionally certified intrinsically safe for use in NEC Class I, Division 1 hazardous areas and ATEX Equipment Group II, Equipment Category 1.

Product Description

Unmonitored supply vessels can run-dry leading to potentially expensive process upsets. Customers who replace cylinders by time rather than by weight risk not using valuable chemicals. With a GCS400 Series cylinder scale, customers can continuously monitor cylinder mass ensuring maximum chemical depletion. 0-5 Vdc and 4-20 mA outputs are available.

The GCS400 Series features a stainless steel platform and base and sealed load cell and rubber shock pads with 60 pound (27 kg), 100 pound (45 kg), or 300 pound (135 kg) capacities. The devices are also rated for 150% overload without damage. The GCS400 Series is extremely compact at a mere 1.4" (36 mm) high.

Product Features

Features	Benefits
Low profile gas cylinder scales	Easy to place and remove cylinder from scale
Heavy gauge stainless steel housing, base plate and load cell	Does not get damaged during loading/unloading, offers superior corrosion resistance
Single environmentally sealed load cell	Extends life without degrading performance
0 to 5 Vdc and 4 to 20 mA outputs	Ability to transmit signal to local or remote displays and controller
FM Approved (USA) & ATEX Approved	Certified intrinsically safe for use in hazardous areas

Product Applications

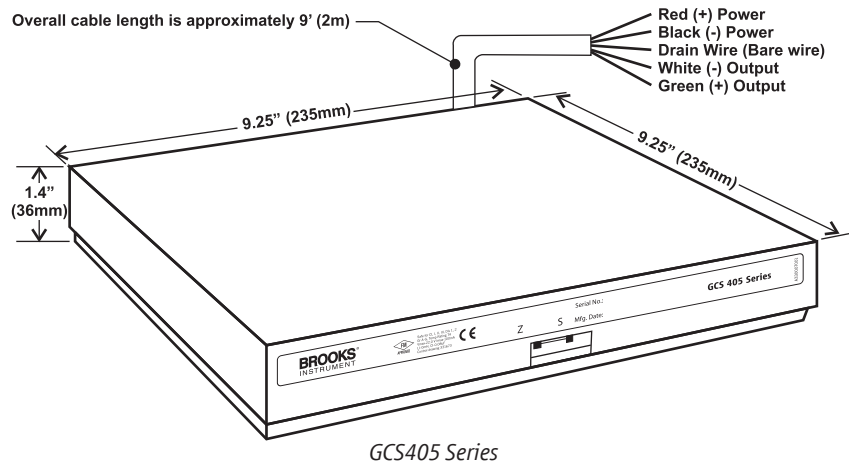
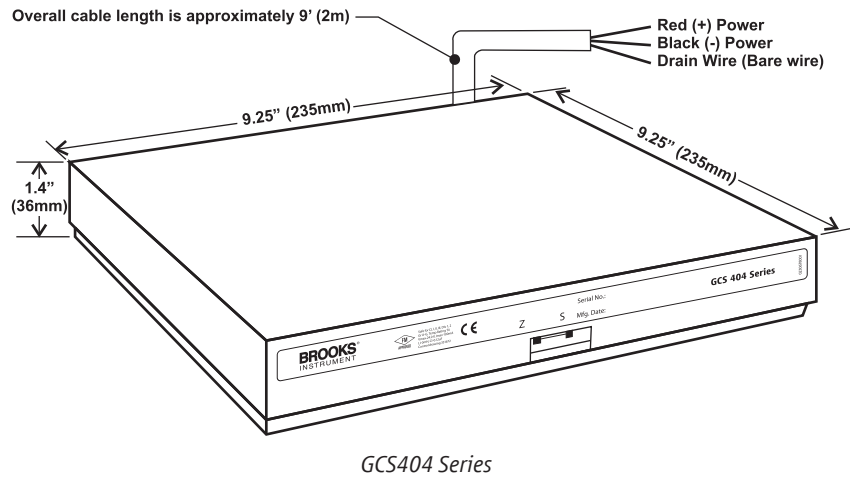
GCS400 Series scales are suitable in a wide variety of gas and chemical delivery systems. Their ability to transmit a signal showing the amount of depletion allows them to be integrated with a local or remote display or a control system ensuring uninterrupted supply of fluid. GCS400 Series scales are suitable for use in production equipment as well as utility supply applications.

Product Specifications

Performance

Material	Stainless steel platform, base and sealed load cell
	Rubber shock pads
	Double-shielded cable for increased RFI protection
Max Supply Current	GCS404: 26 mA
	GCS405: 20 mA
Output	GCS404: 4 to 20 mA
	GCS405: 0 to 5 Vdc
Input Power	24 Vdc nominal, 11 to 30 Vdc
Linearity	±0.1% full scale
Repeatability	±0.1% full scale
Stability	±0.1% full scale per 30 days
Overall Cable Length	9' (2m) pigtail cable
Temperature Range	Operating: -22 to 150°F (-30 to 65°C)
	Compensated: 14 to 122°F (-10 to 50°C)
Dimensions	9.25" x 9.25" x 1.4" (235mm x 235mm x 36mm)
Maximum Overload	150% full scale
Approximate Shipping Weight	15 lbs (6.81 kg)
Intrinsic Safety Information	FM Approved: Safe for Class I, II, III Div 1, 2 GR A-G, Temp Rating T4 ATEX Approval: DEKRA 12 ATEX0252X II 1 G Ex ia IIC T4 Ga EN 60079-0:2012 EN60079-11:2012 EN60079-26:2007

Product Dimensions



Model Code

Code	Description	Code Option	Option Description
I.	Base Model Code	GCS40	Gas Cylinder Scale 400 Series
II.	Outputs	4	4 to 20 mA
		5	0 to 5 Vdc
III.	Capacity in Pounds	60	60 lbs
		100	100 lbs
		300	300 lbs
IV.	Electrical Connector	9P	9' (2m) pigtail cable

Sample Model Code

I	II	III	IV
GCS40	4	60	9P

Brooks Service and Support

Brooks is committed to assuring all of our customers receive the ideal flow solution for their application, along with outstanding service and support to back it up. We operate first class repair facilities located around the world to provide rapid response and support. Each location utilizes primary standard calibration equipment to ensure accuracy and reliability for repairs and recalibration and is certified by our local Weights and Measures Authorities and traceable to the relevant International Standards.

Visit www.BrooksInstrument.com to locate the service location nearest to you.

START-UP SERVICE AND IN-SITU CALIBRATION

Brooks Instrument can provide start-up service prior to operation when required. For some process applications, where ISO-9001 Quality Certification is important, it is mandatory to verify and/or (re)calibrate the products periodically. In many cases this service can be provided under in-situ conditions, and the results will be traceable to the relevant international quality standards.

CUSTOMER SEMINARS AND TRAINING

Brooks Instrument can provide customer seminars and dedicated training to engineers, end users, and maintenance persons.

Please contact your nearest sales representative for more details.

Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

Brooks Brooks Instrument, LLC



Global Headquarters

Brooks Instrument
407 West Vine Street
Hatfield, PA
19440-0903 USA

Toll-Free (USA): 888-554-FLOW
T: 215-362-3500
F: 215-362-3745

BrooksAM@BrooksInstrument.com

A list of all Brooks Instrument locations and contact details can be found at www.BrooksInstrument.com