

Gas Cylinder Scale

WIKA Data Sheet AC 09.13



Applications

- Weighing gas cylinders in gas cabinets and gas distribution systems
- Chemical delivery systems
- Facility maintenance

Special Features

- High overload protection up to 400 %
- 0.1 % FS Accuracy
- Excellent EMI and RFI immunity
- Scale ranges 0 ... 60 lbs to 0 ... 300 lbs
- High ingress protection NEMA 4 (IP 65) for processing with high condensation and outdoor use.

Description

The WIKA Gas Cylinder Scale is designed for liquid gas weighing applications by in and outdoor use in gascabinets or gascontainers with corrosive environments.

Condensate on the gascylinders will not be a problem anymore because of the high ingress protection.

A carefully designed robust construction, accurate and reliable measurement of the weight maintain the high standards of the Semiconductor gas distribution processes.

EMI and RFI protection meets highest standards to guarantee a error free accurate operation.

The high overload protection and heavy gauge stainless steel component parts secure the maintenance-free performance in industry-grade applications.



Fig. Gas Cylinder Scale GCS-1

Digital indicators



Fig. digital indicator DI30 panel mounting

Fig. digital indicator DI30 wall mounting

Specifications

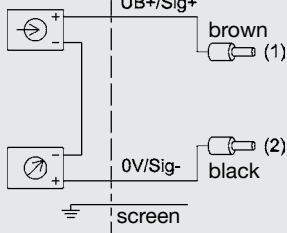
Gas Cylinder Scale GCS-1

Measurement range	lbs	60	100	300
	kg	27.22	45.36	136.08
Over load protection	lbs	250	300	750
	kg	115	130	340
1 lbs = 0.453 kg (Other ranges on request)				
Materials		Aluminium		
■ Sensor		Aluminium		
■ Case / base plates		Stainless steel		
Power supply U_B	U_B in VDC	$11 < U_B \leq 30$ (24 VDC ATEX Zone 2)		
Max. current consumption	mA	< 30		
Signal output		4 ... 20 mA, 2-wire (ATEX) / 0 ... 5 VDC, 4-wire / 0 ... 10 VDC, 4-wire		
Maximum load R_A	R_A in Ohm	$R_A \leq (U_B - 3 V) / 0.02 A$		
Adjustability zero / span	%	± 5 via potentiometer inside the instrument (protected through a screw cap)		
Dielectric strength	VDC	500		
Accuracy	% of span	≤ 0.1		
	% of span	≤ 0.05 BFSL		
Non-linearity	% of span	≤ 0.05 according to IEC 61298-2		
1-month stability	% of span	≤ 0.04 (at reference conditions)		
Permissible temperature of				
■ Ambience		-15 ... +50 °C	+5 ... +122 °F	
■ Storage		-20 ... +60 °C	-4 ... +140 °F	
Compensated temp. range		-10 ... +50 °C	+14 ... +122 °F	
Temperature coefficients within compensated temp. range				
■ Mean TC of zero	% of span	$\leq 0.1 / 10 K$		
■ Mean TC of range	% of span	$\leq 0.1 / 10 K$		
Ex-protection	ATEX	Category 3G for 4 ... 20 mA output signal EEx nA/nL II C T4 / T5 / T6 X		
CE-conformity		89/336/EEC emission (class B) and immunity according to EN 61326		
Immunity level		30 V/m according to IEC 61000-4-3 / 10 V according to IEC 61000-4-6		
Wiring protection		Protected against reverse polarity and short circuiting on the instrument side		
Ingress Protection		IP 65 (NEMA 4) according to IEC 60 529		
Mass		Approx. 13 lbs / approx. 6 kg		
Dimensions	mm	235 x 235 x 35 (9.25" x 9.25" x 1.35")		

Flying leads with 6 m (20 ft) cable

2-wire, 4 ... 20 mA

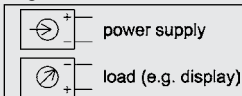
Non hazardous area | Hazardous (classified) area



4-wire, 0 ... 5 VDC
4-wire, 0 ... 10 VDC

colour assignment:
UB+ red
UB- black
Sig+ orange
Sig- brown

Legend:



Order numbers

Gas Cylinder Scale	4...20 mA	0...5 VDC
pressure range 60 lbs (27.22 kg)	12364453	-----
pressure range 100 lbs (45.36 kg)	12364445	-----
pressure range 300 lbs (136.08 kg)	12359794	12489621

Digital Indicator	230 VAC	110 VAC
DI30 for wall mounting	12458741	12489841
DI30 for panel mounting	12480771	12489825

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



WIKA Instrument Corporation

1000 Wiegand Boulevard

Lawrenceville, GA 30045

Tel (770) 513-8200 Toll-free 1-888-WIKA-USA

Fax (770) 338-5118

E-Mail info@wika.com

www.wika.com