

# DCS-302

## Dual Cylinder Scale



### Features

- Non-corroding, highly impact resistant scale base
- Sensing elements mounted above weighing surface away from corrosive sources and to provide easy maintenance
- Reliable lever style weigh system and lack of support column eliminates deflection errors
- Optional cylinder support chains
- Shipped pre-assembled

DCS-302

### Description

The DCS-302 is a rugged, dependable weighing system for two compressed gas cylinders. It provides an independent, accurate, and highly visible indication of the weight on each weigh platform. This system incorporates features that eliminate most of the problems which affect similar scales. The EI-2000 digital indicator comes with the system and is housed in a NEMA 4X enclosure to stand up to the environments it is normally installed in. The scale base is warranted for a full 5 years.

Your Source for Precision Process Solutions



# DCS-302

## Dual Cylinder Scale

The scale base is manufactured from solid PVC, which will not corrode and is highly impact resistant. The scale has two independent weighing platforms, one for each of two compressed gas cylinders.

The weight of each cylinder is transmitted to an environmentally sealed strain gauge load cell via a reliable, time-proven lever system. The load cells are mounted on top of the scale platform, away from most sources of corrosion in a NEMA 4x fiberglass enclosure. In addition since there are no support column housing cables or rods to a load cell deflection errors associated

The scale is furnished with a highly accurate E-2000 dual channel indicator which provides two large, independent LED displays and isolated 4-20 mA DC output signals. The indicator, like the scale electronics is housed in a NEMA 4x fiberglass enclosure for wall mounting. Refer to the datasheet for the EI-1000/EI-2000 indicators for additional technical details on this instrument.

The DCS-302 can be provided with an optional wall mounted bracket including safety chains providing an additional margin of safety for operators.

Physical Specifications	
NO. OF PLATFORMS	2
CAPACITY	360 LBS PER PLATFORM
CYLINDER SIZE	12 INCH DIA. MAX.
PLATFORM HEIGHT	1 5/8 INCHES
ACCURACY	± 0.25% FULL SCALE
LOAD CELL NOMINAL OUTPUT	0.9 mV/V
OVERLOAD CAPACITY	150% RATED CAPACITY
TEMPERATURE COMPENSATED RANGE	30-115 °F.
OPERATING TEMPERATURE RANGE	0-120 °F.
HOOK-UP CABLE	15 FT. 6-CONDUCTOR
CELL INPUT VOLTAGE	5-15VDC
INPUT RESISTANCE	350 OHMS MIN.
OUTPUT RESISTANCE	350 OHMS NOM.
SHIPPING WEIGHT	36 LBS.

Weigh Indicator Specifications	
DISPLAY	Two 4-DIGIT, 0.56" 7 SEGMENT LED
INPUT RANGE	-0.4 to 3.3 mV/V
OUTPUT	Two 4-20 mA <sub>DC</sub> into 400 OHMS
LINEARITY	± 0.1%
POWER REQUIREMENT	117 VAC, 48 TO 62 HZ 220/440 VAC OPTIONAL
TEMPERATURE RANGE	17-104 °F. -10 TO 40 °C.
ENCLOSURE TYPE	NEMA 4X SURFACE MOUNT

Options	
LOW WEIGHT ALARM RELAYS*	AC - 250V, 1.3A DC - 400V, 1.3 A
SERIAL COMMUNICATION	RS232 (2 WIRE) RS485
INDICATOR ENCLOSURE	STAINLESS STEEL
CYLINDER SUPPORT BRACKET & SAFETY CHAINS	
FLOOR MTG STAND FOR INDICATOR	

