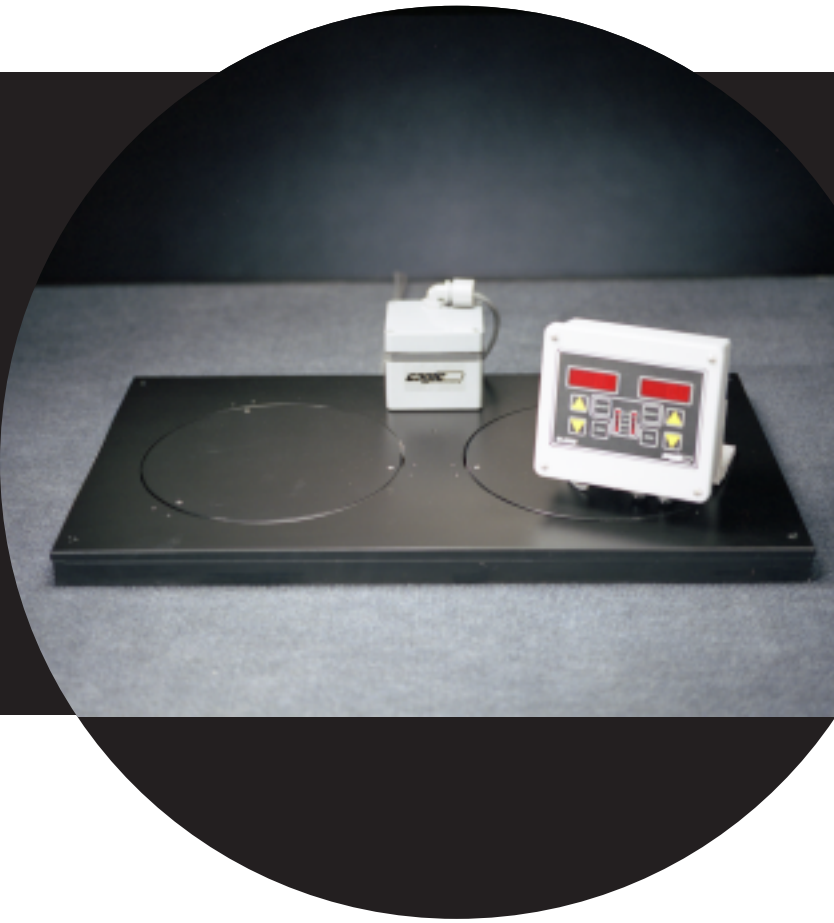


DCS302

Dual Cylinder Scale



The DCS302 is a rugged, dependable weighing system for two compressed gas cylinders, providing an independent, accurate, highly visible and readable indication of the weight on each weigh platform. Clearly the most advanced design available, the DCS302 incorporates features that eliminate most of the problems which plague similar competitive scales. And the scale base is warranted for a full 5 years. The NEMA 4X-housed EI-2000 Dual Channel Indicator Transmitter is provided for local weight display and parameter adjustment.

Features

- Non-corroding, highly impact resistant plastic scale base warranted for 5 years
- Electronics and environmentally sealed load cells mounted in NEMA 4X enclosure on top of scale base.
- Sensing elements mounted above weighing surface away from sources of corrosion and easily accessible for service.
- Reliable lever type weigh system
- No long support column eliminates deflection errors
- Cylinder support bracket and chains wall mounted for added safety (optional)
- Factory assembled and ready for use

DCS302

Your Source for Precision Process Solutions

eagle
MICROSYSTEMS

DSC302

Dual Cylinder Scale

Ideal for Corrosive Environments

The scale base is manufactured from solid PVC, which will not corrode and is highly impact resistant. The scale base 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 scale electronics and load cells are mounted on top of the scale platform, away from most sources of corrosion, in a NEMA 4X fiberglass enclosure ensuring full time integrity of the weighing system. 15 feet of multi-conductor load cell cable come with each scale. Additional cable can be ordered.

Because the scale has no support column, which traditionally houses cables or rods to transmit load to the cells, deflection errors

associated with transmission rods or cables are completely eliminated.

The scale is furnished with a highly accurate EI-2000 Dual Channel Indicator/Transmitter which provides two large, independent LED displays and isolated 4-20 mAdc output signals, one for each weighing platform. The indicator is housed in a NEMA 4X fiberglass enclosure for local field mounting. Refer to Product Data Sheet EI-1000/2000 for technical details and additional capabilities of the EI-2000 instrument.

Unlike other scales which mount a bracket and chains to the support column, the DSC302 can be optionally provided with a separate cylinder support bracket and safety chains designed for mounting to a wall to provide an additional margin of safety for user personnel.

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 mAdc 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
* CUSTOMER TO SPECIFY AC OR DC	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	

