

RDA Precision Weigh Scale

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RDA Precision Weigh Scale

DESCRIPTION

The RDA Precision Weigh Scale has many uses, and is a popular option in the refrigerant handling industry. With its flatbed design, a capacity of 120kg and an accuracy of 10grams. The platform has an integral supply socket that can be switched at a selected level to control external pumps and equipment. It also has the option of an electronic switch activated by a predetermined weight either on rise or fall. This transfer control weigh platform was originally designed for the refrigeration industry the platform is also used in numerous other simple fluid transfer and filling applications.



EQUIPMENT

When recovering liquid refrigerant from plant or equipment a recovery cylinder can fill rapidly. For this reason, particularly with smaller cylinders, it is important to have accurate rapid response weight measurement. The instrument in the RDA Professional Weigh Scale samples three times every second, achieving a high accuracy of displayed weight and trip point operation. For safety it is not recommended to fill refrigerant cylinders to more than 60% of the full capacity in order to allow a vapour space for expansion. The only safe method of determining the amount of refrigerant or pressurised product contained in a cylinder is by measurement of gross weight. Calculate the maximum allowable gross weight by addition of the container tare weight and the maximum net fill stenciled on the container.

OPERATION

BASIC SCALE: The scale will display the gross weight of cylinders placed on the platform either when connected to the mains or powered by an integral battery. The weight of refrigerant in cylinders or product in partially filled containers can thus be ascertained.

AUTOMATIC TRIP ON RISE IN WEIGHT: This mode is used when operating the scale in conjunction with a refrigerant recovery unit or a pump. The recovery unit or pump is powered via the mains socket on the fascia and the cylinder is placed on the platform. The operator is able to pre-set the switching point so that the mains supply to the socket switches at the safe weight limit for the cylinder. Where it is not practical to terminate flow by switching off power to the recovery unit or pump the weigh scale can be used to power a normally closed solenoid valve in the supply line to the cylinder.

AUTOMATIC TRIP ON FALL IN WEIGHT: This mode allows the weigh scale to be used to control accurate charging applications or for controlling the transfer of product between cylinders.

TECHNICAL SPECIFICATION

Length	540mm	Weight Display Accuracy	+/- 10g	Voltage	230V 50Hz
Width	460mm	Power Handling	10A max (2HP)	Options available	115v 50Hz with BS 4343/CEE
Height	75mm	Load Cell Rating	130kg		17 plug and socket or
Weight	460mm	Audible Overload Warning	100kg		115v 50/60Hz with Schuko
Range	0-120kg	Rechargeable Battery Life	10 hours operation		plug and socket

RDA PRECISION WEIGH SCALE

- Load capacity up to 120kg
- Switched socket outlet rated at 10A
- Adjustable trip point can be set to operate on either rising or falling weight
- Rechargeable NiMH battery back up for on site weighing
- Full bridge centre point load cell and digital amplifier for high resolution and accuracy
- Low profile robust steel construction indurable industrial paint finish
- Touch pad controls for ease of operation
- Large digital LCD display
- UNITS button toggles display between kg and lb/oz
- HOLD button to interrupt transfer by temporarily de-energising outlet socket
- Self calibration and compensation for ambient temperatures between -20C and 40C
- Carrying handle with cable winder 2m mains lead with moulded plug Safety overload stops and audible alarm
- Hinged cover to protect the fascia
- Full instructions displayed