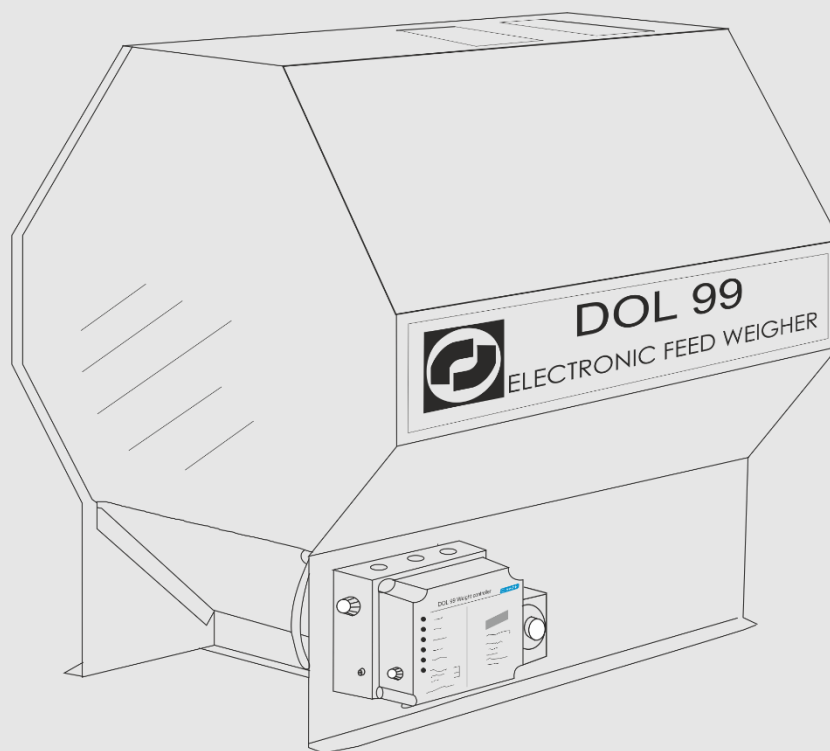


DOL 99 and DOL 99-2

Technical Info



1 Product description

The DOL 99 feed weighers consists of dustproof housing with feed supply at the top and discharge at the bottom. Inside is a rateable weighing drum suspended from two load cells. By feed discharge the drum rotates once by means of a gear motor. A microcomputer controls the weigher and stores the quantity of feed weighed.

The control unit has a four-digit display, 6 pilot lamps, display switch and adjustment knob. The position of the display switch determines what to be shown on the display including weight indications – grams, kilos, tons. The 6 pilot lamps indicate the present function of the weigher.

DOL 99

DOL 99 can be used in any feeding system for accurate monitoring. The quantity of feed weighed will be stored in the protected memory of the microcomputer. Also weighing impulses for external monitoring, e.g. by DOL house computers or by PLC units will be given.

DOL 99 is especially convenient for broiler houses and other houses with restricted feeding. If DOL 99 is connected to a time clock, the weigher can on a contact signal weigh out a preset quantity of feed between 5 and 2000 kg.

DOL 99-2

DOL 99-2 is designed to dose two feed components independently, e.g. mixed feed and wheat for broilers. The mixing ratio is adjusted on the control unit and the quantities weighed will be stored separately in the memory. DOL 99-2 gives separate weighing impulses for each feed component.

Description of Function

The required quantity per weighing can be set between 10 and 30 kg. The entire weighing process is controlled by the microcomputer:

- 1) Calculation of tare weight
- 2) Start of filling
- 3) Stop of filling
- 4) Calculation of gross weight
- 5) Discharge of weighing drum
- 6) Calculation of net weight
- 7) Activation of impulse relay, one impulse per 10 kg
- 8) If the weigher is inactive for more than 5 minutes, the drum turns upside down.

Alarm Functions

As an extra safeguard DOL 99 and DOL 99-2 can be connected to an alarm system. The alarm relay is activated in case of power failure and if there is a malfunction in the feed supply or gear motor. DOL 99 will also give the alarm by lack of feed during restricted feeding.

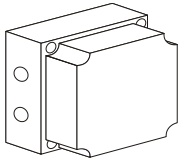
Installation/connection

The weigher should be installed separately between the feed supply auger and the hopper feeder and precautions should be made against vibrations from the feeding system.

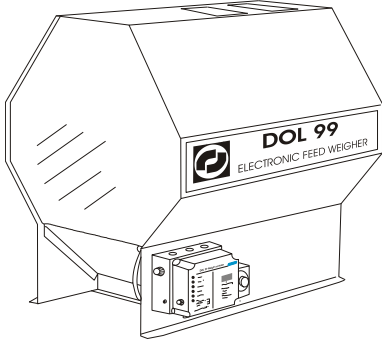
The weigher should be connected to 230V ac and earth. To start the weighing cycle a 230V ac feed demand signal is required. Inputs are available for resetting the memory of the weigher and for connection of time clock.

2 Product survey

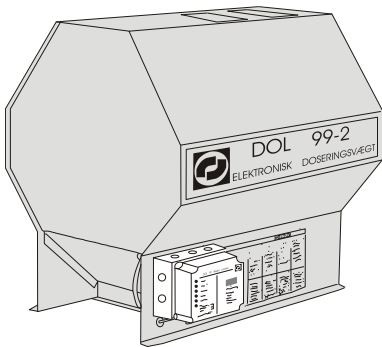
DOL 99 and DOL 99-2 feed weigher



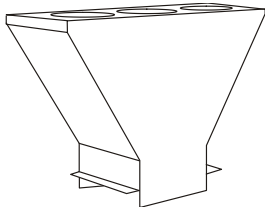
130322 DOL 99 remote control unit



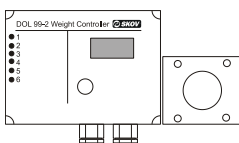
130300 DOL 99 feed weigher



130320 DOL 99-2 feed weigher



132651 Inlet funnel for feed weigher 3 comp.



132653 DOL 99B upgrade from DOL 99

3 Technical data

Suitable for		Grain, flour, mash, crumbs and pellets
Capacity	DOL 99	Up to 4500 kg/hour (30 kg/batch)
	DOL 99-2	Up to 3500 kg/hour (30 kg/batch)
Accuracy		During 1 year: 0.5%
Adjustments		0 kg and 20 kg for calibration
		Quantity per weighing 10-30 kg
	DOL 99	RESTRICTIVE feeding 1-2048 kg
	DOL 99-2	Mixing ratio 0-100% A

Electrical

Nominal voltage		220V/240V
Voltage range		180-276V
Nominal frequency		50/60 Hz
Frequency range		45-65 Hz
Consumption		6W (86W)
Thermal circuit breaker		Built-in
Transient protection:		
On mains input, COMMON MODE		Level IV 4kV 50 μ S
On mains input, DIFFERENTIAL MODE		Level IV 4kV 50 μ S
On all inputs, CAPACITANCE COUPLING		Level III 2kV 50 μ S
Outputs		Control of feed supply 220V/5A Weight pulses potential free contact 220V/5A Alarm potential free contact 220V/5A
Inputs		Feed requirement 220V 1VA
	DOL 99	Timer with potential-free contact
	DOL 99-2	Mixing ratio 0-10V DC
		Resetting via pushbutton

Environment

Ambient temperature	+10 °C - +45 °C at nominal cond. \pm 10 % (50 -113 °F)
Ambient temperature, store	-25 °C - +60 °C (13 -140 °F)

Shipping

Material	Plate housing and drum: Alu-zinc
Dimensions	H: 620 mm, L: 670 mm, W: 500 mm
Volume	0.2 m ³
Weight	32 kg

Dimensioned sketch

