

Model 1430

Damped Load Cells



Features

- Capacities: 3, 7.5, 10 kg
- Stainless Steel Construction
- Insensitive to rotary dynamic forces
- Single Point Performance
- Rotary speed to 15 rpm at 1m radius
- Sealed wash down configuration

The 1430 is uniquely designed to reduce weighing errors resulting from dynamic forces occurring on rotary liquid filling machines. The 1430 will provide high weighing accuracies when operated over a range of 0 to 15 rpm at a mounting location up to 1 meter radius.

The sealed stainless steel construction of the model 1430 provides safe operation in applications subjected to caustic or heavy wash down environments. The rugged construction provides significant overload protection both in the weighing axis as well as against side loading. Side loads, such as occurring in bottle jams of up to 300 kg, have been applied to units with no significant zero change.

The 1430 features adjustable viscous jumping that significantly reduces the settling time allowing for faster machine cycles.



EXCELLENCE IN LOAD CELLS

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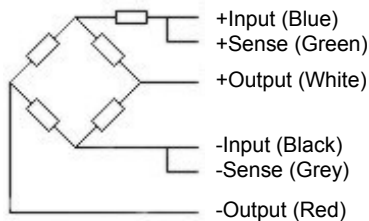
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PARAMETER	VALUE	UNIT
T-H Accuracy class	E	
Rated capacity-R.C.	3	Kg.
Rated output-R.O.	2	mV/V
Rated output tolerance	0.3	± mV/V
Zero balance	10	± % of R.O.
Total static error at room temperature per OIML	0.03	± % of R.O.
Dynamic error	0.04	± % of the static reading at same load.
Creep & Zero return (30min.)	0.05	± % of load
Temperature effect on zero	0.01	± % of R.O./°C
Temperature effect on output	0.003	± % of load/°C
Temperature range, compensated	+5 to +41	°C
Temperature range, safe	-30 to +71	°C
Maximum safe static overload, positive	160 Factory adjusted to 170% of R.C.	% of R.C.
Maximum safe static overload, negative	-120	% of R.C.
Ultimate static loading (central loading)	300	% of R.C.
Excitation, recommended	10	Vdc or Vac rms.
Excitation, maximum	15	Vdc or Vac rms.
Input impedance	415 ± 15	Ω
Output impedance	350 ± 3	Ω
Insulation resistance	>2000	MΩ
Cable length	5 min.	m.
Weight (nominal)	t/d	kg.
Cable type	6 conductors, 26 AWG, Shielded, PVC jacket	
Color code	+ exc-gm, +sig-wht, +sen-blu -exc-blk, -sig-red, -sen-bm	
Construction	Aluminum sensor enclosed in, Stainless Steel box	
Damping	Internal silicone fluid damping. Silicone fluid is shipped separately from load cell, dozed in syringe. Silicone fluid is filled in cylinder before installation of load cell	
Compensation circuit type	Unbalanced	
Outline dimensions drawing	206.00.00-3	

Wiring Schematic Diagram



Outline Dimensions All Capacities (in mm)