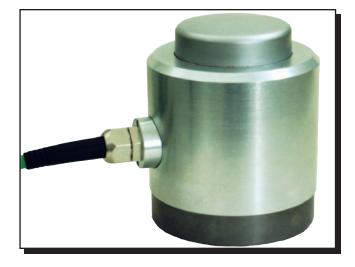


DD-03

Load Cells and Force Transducers

FEATURES

- Nominal capacity: 20, 50, 100, 200, 500, 1000 kN
- Small dimensions: ideal for space-saving applications
- High accuracy and long service reliability
- Sealed strain gauge area
- Very high strength steel measuring spring with hard chrome-plated dome
- Accuracy class 0.3%
- Protection IP 66



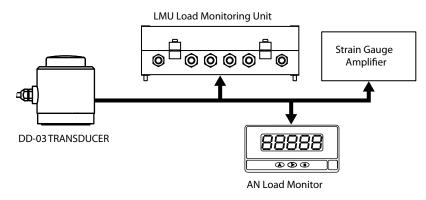
APPLICATIONS

The DD-03 Force Transducer can be used to measure very large force ranges. When connected to a signal conditioner, this high-accuracy transducer is ideally suited for weight measurement applications in hoppers/silos, platforms and ski lifts.

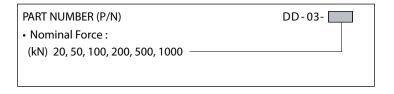
DESCRIPTION

Magtrol's DD-03 Force Transducers are designed for measuring static and dynamic compression loads. Using strain gauge technology, a deformation of the sensing element provides an electrical signal proportional to the load or force being measured.

SYSTEM CONFIGURATION -



ORDERING INFORMATION



E Specifications

TECHNICAL RATINGS

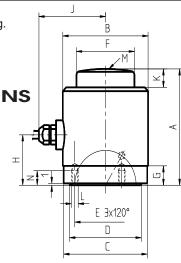
	DD-03	
MECHANICAL CHARACTERISTICS		
Nominal load	20 kN, 50 kN,100 kN	200 kN, 500 kN, 1000 kN
Accuracy class	0,3 %	
Overload Limit	150 %	
Overload at Rupture	> 400 %	
Nominal deflection	~ 0.1 mm	~ 0.5 mm
Weight	~ 1.4 kg	~ 5 kg
ELECTRICAL CHARACTERISTICS		
Nominal output (output signal at nominal capacity)	2 mV/V ± 0.3 %	
Input Impedance	260 Ω	
Output Impedance	240 Ω ± 2	
Insulation resistance	> 10 ⁹ Ω	
Supply voltage	≤20 V	
Combined error (non-linearity and hysteresis)	< ± 0.25 %	
ENVIRONMENTAL CHARACTERISTICS		
Reference temperature	23 °C	
Operating temperature (compensated)	-10 °C to +60 °C	
Usable temperature range	-40 °C to +80 °C	
Temperature influence : on zero	< ± 0.01 %/K	
Temperature influence : on sensitivity	≤ ± 0.03 %/K	
Protection Class	IP 66	
CONNECTION CABLE		
Cable length	3 m	

DIMENSIONS

Shielded connection cable 3 m long. The shielding is not attached to the transducer body.

PIN CONNECTIONS

PIN	COLOR CODE	
+ Supply	Brown	
- Supply	White	
+ Signal	Yellow	
- Signal	Green	



Dimensions (mm)	Nominal load (kN)	
	20, 50, 100, 200	500, 1000
A	70 ± 0.5	120 ± 0.5
В	64	100
С	62	98
D	50	84
E	42	72
F	30	67
G	7	20
Н	31	52
J	68	86
К	4	19
L	M6	M8
М	R = 60	R = 200
N	10	15

Due to the continual development of our products, we reserve the right to modify specifications without forewarning.



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