

# **GAD** SERIES LARGE DIGITAL DISPLAYS

## FEATURES \_\_\_\_\_

- Suspension-Mounted large LED Display
- Digit Heights: 57, 102, 150, 200, 300 & 400 mm
- Protection Class IP65 (sealed)
- Fully Corrosion Resistant
- Adjustable Brightness
- Power Supply: 95...265 VAC (optional 11...30 VDC or 48 VAC)
- Input: 0...10V, 0...5V or 0...20mA, 4...20mA
- Fully scalable in kg, t (ton), kN, and other engineering Units
- Auto-TARE function
- Optional Voltage (0-10V) or Current (4-20mA) Analog Output



Fig. 1: GAD 6, digits height 102mm - Large Digital Display

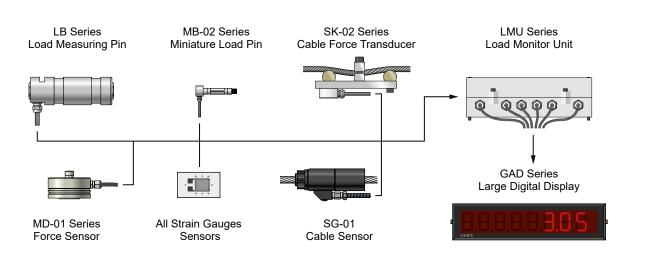
## **DESCRIPTION**

These high quality, large character digital displays can be used for crane weight display, process weight display, and all other remote weighing applications. They use microprocessor based technology for high reliability and have a non-volatile memory to store all the calibration data.

# LOAD-FORCE-WEIGHT SYSTEMS \_\_\_\_

Magtrol Large Digital Displays are used with Load Monitoring Units (LMU Series) or signal conditioners (AN Series), as part of a complete measurement system. Magtrol load measuring pins, which measure load and force to provide overload protection, are available for a wide range of Load-Force-Weight, and in various executions and accuracy classes. Combined, these products constitute an ideal safe measurement system for continuous overload monitoring.

# SYSTEM CONFIGURATION \_



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DATASHEET





# SPECIFICATIONS \_

010V/05V/15V
1ΜΩ
010mA/020mA/420mA
33 Ω
7 segments
-19999999 (4 digits) or -199999999999 (6 digits)
4 or 6 digits / red
Digital zero and full scale adjustable by programming keys
Position adjustable by programming keys
Time constant adjustable between 0 and 25 seconds
Round-off of the last digits with steps of 1, 2, 5, or 10
GAD Series are primarily intended for indoor applications. Outdoor models, with enhanced luminosity, are available on request.
±0.05% of full scale
±0.05% of full scale ±25ppm/°C (full scale) and ±30ppm/°C (offset)
±25ppm/°C (full scale) and ±30ppm/°C (offset)
±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second
±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second
±25ppm/°C (full scale) and ±30ppm/°C (offset) 10 readings / second 0.1 second
±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second 0.1 second 95265 VAC, 45/60 Hz <sup>a)</sup>
±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second 0.1 second 95265 VAC, 45/60 Hz <sup>a)</sup> 1130 VDC
±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second 0.1 second 95265 VAC, 45/60 Hz <sup>a)</sup> 1130 VDC 50 VA max.
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±25 ppm/°C (full scale) and ±30 ppm/°C (offset) 10 readings / second 0.1 second 95265 VAC, 45/60 Hz <sup>a)</sup> 1130 VDC 50 VA max. ENVIRONMENT 0°C+50°C <sup>b)</sup>

# RELATED PRODUCTS \_\_

### LB & LE SERIES - LOAD MEASURING PINS

LB & LE Series Load Measuring Pins are used to measure load, force and to provide overload protection. The pins are mounted in place of normal shafts and fitted with strain gauges, allowing them to produce a signal proportional to the measured load. Manufactured in Switzerland, Magtrol's Load Pins are rugged with high resistance stainless steel and tight construction, designed specifically for use in hostile indus-

trial environments.

LB & LE Series are used on cranes, hoisting gear, elevators, winches, and force measurement for regulation processes in industrial installations and machinery production. Moreover it is an idealy transducer to detect and measure forces in harsh, tropical, offshore, marine and harbor environments.



Fig.2: LB210 & LB217 Load Measuring Pins

### LMU SERIES - LOAD MONITORING UNIT



Fig. 3: LMU 217 | Load Monitoring Unit

The Magtrol Load Monitoring Unit is specially designed for strain gauge transducer applications. Specifically developed for use with Magtrol load measuring pins and load-forceweight sensors, the LMU Series provides excitation current and amplifies the output signal of full-bridge strain gauges. Configurable relays and analog outputs are also available.

Its IP 65 aluminum housing allows the system to be used in harsh environments.

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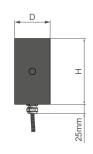


# DIMENSIONS\_





b) This data is currently not available; please contact our sales department



MODEL	DIGHS	DIGITS	VIEWING DISTANCE	LENG	GTH	HEIGHT <sup>a)</sup>	DEPTH	WEIGHT			
WODEL		HEIGHT		without units	with units			Without units	With units		
GAD 057	4	57 mm	25 m	279.5mm	376 mm	154.5 mm		1.25 kg	1.4 kg		
GAD 057	6	(2.25")		376 mm	504 mm	154.511111		1.55 kg	1.7 kg		
GAD 102	4	102 mm	50 m	434 mm	616 mm	195.5 mm	105 5 mm	105 5 mm		2.5 kg	3.3 kg
GAD 102	6	(4")	5011	616 mm	824 mm		1m 75mm	3.8 kg	4.6 kg		
GAD 150	4	150 mm	75 m	580 mm	820 mm	246.0 mm 290.0 mm		4.0 kg	4.4 kg		
GAD 150	6	(6")		820 mm	1060 mm			4.7 kg	5.1 kg		
GAD 200	4	200 mm	100 m	750 mm	1072mm			5.2 kg	5.6 kg		
GAD 200	6	(8")	100111	1072mm	1 395 mm	290.011111				5.9 kg	6.3 kg
GAD 300	4	300 mm	140 m	1 050 mm	1540 mm	408.0 mm	409.0 mm		n/a <sup>b)</sup>	n/a <sup>b)</sup>	
GAD 300	6	(12")		1 540 mm	2022mm			n/a <sup>b)</sup>	n/a <sup>b)</sup>		
CAD 400	4	400 mm	200 m	1 368 mm	2020mm	515.0 mm		n/a <sup>b)</sup>	n/a <sup>b)</sup>		
GAD 400	6	(16") <sup>200</sup> m	2020mm	2672mm	515.011111		n/a <sup>b)</sup>	n/a <sup>b)</sup>			

a) The display height does not include the stuffing gland, which are approximately 25mm (1 inch) height

# ORDERING INFORMATION \_

ORDERING NUMBER	GAD	_	/	 /	_	/	_	/	_	/	_
4 or 6 : Number of digits											
057, 102, ,400: Digits height											
0: None   kg: Kilogram   t: Tons   kN: Kilonewton   other: to be specified	UNITS	5									
95-265 VAC 48 VAC 11-30 VDC	SUPP	LY									
0 : None I : Current output U : Voltage output	OUTP	UT									
0 : None C : With calibration	CALIE	BRATI	ON								

Example: GAD Large Digital Display, 6 Digits, digit height 150mm, with kN units, supply 12VDC, without output and calibrated would be ordered as : GAD 6/150/kN/11-30VDC/0/C

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