

# DORAN PLATFORM SERIES SETUP AND SERVICE MANUAL



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# DORAN DSP SERIES PLATFORM OPERATING AND SERVICE MANUAL

## 1. INTRODUCTION

Congratulations! You have chosen the highest quality stainless steel platform available today. The Doran Platform Series provides you, the user, with the ultimate in scale durability and flexibility. The combination of the rugged, stainless steel construction and high quality, water resistant double-capacity load cell is designed to provide the highest degree of accuracy while maintaining the durability necessary to hold up to hostile industrial environments.

Please be sure to read this entire manual to assure yourself of getting all the benefits of these and the other features of the Doran Platform Series.

All scale platforms are backed by a full 2 year factory warranty. Should you have any problem, contact your authorized Doran Scale dealer or call Doran Scales' service department direct at (800)262-6844 or (708)879-1200 for assistance. Do not return a scale platform to the factory without first obtaining a Return Material Authorization (RMA) number from Doran.

## 2. UNPACKING AND INSTALLATION

### **\*\*CAUTION\*\***

Before proceeding to unpack your scale platform please note that although it is a highly durable industrial scale platform it is also a sensitive weighing instrument. Normal care should be taken when handling and using the scale platform. Please observe the following precautions to insure years of trouble free service from your scale platform.

- \* DO NOT drop the scale platform.
- \* DO NOT drop objects onto the scale platform.
- \* DO NOT pick up the scale platform by the "spider"
- \* DO NOT immerse the scale platform.
- \* DO NOT wash the scale with corrosive solutions.

Improper handling, abuse, or use of corrosive solutions can cause scale failure and damage to the platform. This may void your warranty and result in costly repairs to your unit.

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Carefully remove the scale platform and the platter from the shipping carton. Be sure to retain the shipping carton and all packing material in case reshipment is required.

When choosing a location for the scale platform, keep in mind that the spot should be on a sturdy table that is free of vibration and air currents. Vibration from heavy equipment or appliances and air currents from fans, heating ducts, etc. . can cause bounce on the scale display.

Place the scale platform in its desired location. Level the platform by adjusting the four corner feet until the bubble in the bubble level, located beneath the top platter of the platform, is within the center circle. After a level condition is achieved, test for a stable condition by trying to rock the platform backward and forward and side to side. Adjust the feet for final levelness and stability.

### 3. ELECTRICAL SPECIFICATIONS

The following chart illustrates the load cell output based on the capacity of the appropriate scale platform (in lbs) and load cell capacity (in kgs) used for each capacity scale platform. The load cell output is based on an output of 2mv/v at rated load cell capacity (i.e. if 30kg is placed on a 30kg load cell it will have an output of approximately 2mv/v). The load cells used are typical and might be substituted for larger capacity load cells based on availability of the specific load cell at time of manufacture.

	Platform Capacity (lb)	Load cell used (kg)	Cell output at capacity (lb)
DSP1000	2	3	0.61 mv/v
8 x 10	5	5	0.90 mv/v
8 x 10	10	10	0.90 mv/v
8 x 10	20	30	0.61 mv/v
8 x 10	30	30	0.91 mv/v
12 x 12	50	50	0.91 mv/v
12 x 12	100	100	1.01 mv/v
DSP2000	10	15	0.61 mv/v
	20	30	0.61 mv/v
	30	30	0.91 mv/v
	50	50	0.91 mv/v
	60	50	1.09 mv/v
	100	100	0.91 mv/v
	120	100	1.09 mv/v
	150	100	1.36 mv/v
	200	100	1.81 mv/v

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	Platform Capacity (lb)	Load cell used (kg)	Cell output at capacity (lb)
DSP3000	50	50	0.91 mv/v
	60	50	1.09 mv/v
	100	100	0.91 mv/v
	120	100	1.09 mv/v
	150	150	0.91 mv/v
	200	200	0.91 mv/v
	250	300	0.80 mv/v
	300	300	0.91 mv/v
DSP5000	50	50	0.91 mv/v
	60	50	1.09 mv/v
	100	100	0.91 mv/v
	120	100	1.09 mv/v
	150	150	0.91 mv/v
	200	200	0.91 mv/v
	250	300	0.80 mv/v
	300	300	0.91 mv/v
	500	500	0.91 mv/v
	750	635	1.07 mv/v
	1000	1000	0.91 mv/v
	1105	1000	1.09 mv/v
7000P/8000P	5	5	0.90 mv/v
10 x 10	15	15	0.91 mv/v
10 x 10	20	30	0.61 mv/v
10 x 10	30	30	0.91 mv/v
12 x 12	60	50	1.09 mv/v
12 x 12	100	100	0.91 mv/v
12 x 12	120	100	1.09 mv/v

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### 4. LOAD CELL CABLE LEGEND

The following legend describes the load cell cable color code with the description of each colored wire in the cable. Please note that it is important to make sure that the scale platform is electrically connected to earth ground either through the load cell cable shield (via the lug terminated green wire) or by directly connecting the scale platform to earth ground with an additional wire. This will reduce static and other noise from being induced into the indicator.

For a 6-wire indicator, color code is as follows:

Wire Color	Function
Red	+ Signal
White	- Signal
Green	+ Excitation
Black	- Excitation
Blue	+ Sense
Brown(or Yellow)	- Sense
Green with star lug,(shield)	scale platform ground

For a 4-wire indicator, color code is as follows:

Wire Color	Function
Red	+ Signal
White	- Signal
Green and Blue*	+ Excitation
Black and Brown(or Yellow)*	- Excitation
Green with star lug(shield)	scale platform ground

Note : Connect the +sense and +excitation together as well as the -sense and -excitation together.