

# **DORAN PLATFORM SERIES**

## **SETUP AND SERVICE MANUAL**

**DORAN SCALES**



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MAN0011 Rev. 7.0  
January 12, 2005

## 1. INTRODUCTION

Congratulations! You have chosen the highest quality stainless steel or mild 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 construction and high quality, water resistant 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 (630)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.

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 horizontal surface 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 scale platform (in lb) and load cell capacity (in kg). The load cell output is based on a nominal 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).

Model	Size (in)	Capacity (lb)	Load Cell (kg)	Signal output at cap. (mV/V)
DXL7002	10x10	2	3	0.6
DXL7005	10x10	5	5	0.9
DXL7010	10x10	10	10	0.9
DXL7025	10x10	25	15	1.5
DXL7050	10x10	50	30	1.5
DXL8050	12x12	50	30	1.5
DXL8100	12x12	100	75	1.2
DXL9050	15x15	50	30	1.5
DXL9100	15x15	100	75	1.2
DXL9200	15x15	200	100	1.8

<b>Model</b>	<b>Size (in)</b>	<b>Capacity (lb)</b>	<b>Load Cell (kg)</b>	<b>Signal output at cap. (mV/V)</b>
DSP3050	18x18	50	50	0.9
DSP3100	18x18	100	100	0.9
DSP3150	18x18	150	150	0.9
DSP3200	18x18	200	200	0.9
DSP3300	18x18	300	300	0.9
DSP5050/1824	18x24	50	50	0.9
DSP5100/1824	18x24	100	100	0.9
DSP5200/1824	18x24	200	200	0.9
DSP5300/1824	18x24	300	300	0.9
DSP5500/1824	18x24	500	500	0.9
DSP51000/1824	18x24	1000	1000	0.9
DSP5050/2424	24x24	50	50	0.9
DSP5100/2424	24x24	100	100	0.9
DSP5200/2424	24x24	200	200	0.9
DSP5300/2424	24x24	300	300	0.9
DSP5500/2424	24x24	500	500	0.9
DSP51000/2424	24x24	1000	1000	0.9

<b>Model</b>	<b>Size (in)</b>	<b>Capacity (lb)</b>	<b>Load Cell (kg)</b>	<b>Signal output at cap. (mV/V)</b>
DMS3050 and DSS3050	18x18	50	50	0.9
DMS3100 and DSS3100	18x18	100	75	1.2
DMS3250 and DSS3250	18x18	250	150	1.5
DMS3500 and DSS3500	18x18	500	300	1.5
DMS4050 and DSS4050	18x24	50	50	0.9
DMS4100 and DSS4100	18x24	100	75	1.2
DMS4250 and DSS4250	18x24	250	150	1.5
DMS4500 and DSS4500	18x24	500	300	1.5
DMS41000 and DSS41000	18x24	1000	500	1.8
DMS5050 and DSS5050	24x24	50	50	0.9
DMS5100 and DSS5100	24x24	100	75	1.2
DMS5250 and DSS5250	24x24	250	150	1.5
DMS5500 and DSS5500	24x24	500	300	1.5
DMS51000 and DSS51000	24x24	1000	500	1.8

#### 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.



# **PLATFORMS**

## **LIMITED WARRANTY STATEMENT**

DORAN SCALES, INC. warrants its products to be free from defects in material and workmanship for a period of two (2) years from date of shipment. Any product found to be defective within this time period may be returned to DORAN's factory, freight prepaid, with prior return authorization for repair or replacement at no charge.

DORAN's liability under this warranty is limited to the repair or replacement of the defective product and in no event shall DORAN be liable for consequential or indirect damages to equipment or personnel. Nor shall DORAN be liable for damages to equipment or for personal injury caused by misuse, overload, accidental damage, alteration, improper installation, or unauthorized opening of the equipment. Under no circumstances will DORAN be responsible for any indirect or consequential damages due to errors in weighing or failure of a DORAN product to perform properly.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THIS WARRANTY CONSTITUTES DORAN'S EXCLUSIVE WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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