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MODEL PWS1LM

OPERATING INSTRUCTIONS

INTRODUCING THE PWS1LM

The Model PWS1LM has many easy to use features, coupled with simple one touch controls combining weighing with movement of palletized goods in such a way that it is almost effortless as far as the user is concerned.

USER CONTROLS

1. ON/TARE

A single push-button on the left hand side of the display box which performs a dual role. Firstly a single push of the button will bring the display on, and during normal use can be used to re-zero the display with weight already on the scale (tare).

2. OFF.

This is also a single push-button, this time it is on the right hand side of the display box and simply turns the display off.

USING THE PWS1LM FOR THE FIRST TIME

Please ensure that the PWS1LM is properly unwrapped paying particular attention to any packing tape around the legs, make sure that it is removed fully prior to use, as it will upset accurate weighing. Unwrap the charger unit and have somewhere allocated for it where it cannot get damaged.

Maximum Load. The maximum load may not be exceeded. Remember that the pallet truck is designed for evenly distributed pallet loads etc. If the forks are point loaded to one side, there will be a risk of bending and permanent damage to the chassis.

INTRODUCING THE SIGMA DISPLAY

The Sigma scale display is a high quality small sized weighing indicator manufactured using the latest microprocessor technology. It also uses the latest delta-sigma type analogue to digital converter giving fast ultra-linear conversion. All the devices used are Cmos to give a very low current consumption, ideal for battery-powered applications. Calibration is software controlled for ease of installation with both gain adjustment and a dead load offset adjustable via software. This coupled with error checking by the software gives the user a high precision and highly versatile weighing display.

DISPLAY SPECIFICATIONS

Voltage	8 – 24 volts dc
Current consumption	15-ma approx.
Display type: LCD board 2	6 digit LCD 25.0mm high
Number of scales	1 or 2 Independent
Input sensitivity: Scale 1	4 – 10 MV/v input
Input sensitivity: Scale 2	10,20,40,60 MV/v *
Internal resolution: High	1 part in 450000 *
Internal resolution: Low	1 part in 65000
Display resolution	2,3,4,5,10000 divisions
Display increment	1,2,5
Display Scaling	0.0000, 00.000, 000.00, 0000.0 or 00000
Set points	2 (only available in 1 scale mode)
Serial Port	1 configurable

OPERATING THE SIGMA DISPLAY

Green Button - On/Tare

Pressing this button will turn the scale on, following which you will see the display give a version number followed by a system self-check. During this period you should see the display count from 1 through to 9 then start weighing.
Pressing this button during weighing mode will re-zero the display. This is ideal if you want to tare out the weight of a pallet for instance.

Red Button - Standby

By pressing this button once you will switch the display off and it will enter stand-by mode.

LOOKING AFTER YOUR NEW SCALE

Cleaning the Sigma Display

When cleaning the Sigma display unit, be careful not to use harsh abrasives or cleansing agents that are solvent based or that are alkaline. Care should be taken around the display area. Using a clean cloth, moistened with water and a small amount of washing liquid is fine.

Adding life to your scale

The battery included with your product is widely available and is identical to ones used in applications such as burglar alarms/fire alarms.

Following the few guidelines needed for the PWS1LM should ensure that you get good life out of all the components and it proves to be a valuable asset for your company.

CHARGING THE BATTERY

Charging the battery for the PWS1LM correctly is a good place to start in adding life to your scale and is usually the most common cause of a fault if not done correctly. The battery and charger set-up has been designed for ease of use and has a number of self-diagnostic functions. The battery is charged in situ by means of a push-fit connector, which is keyed to make wrong connection impossible.

Battery capacity is 7ah and will last much longer than the specified 10hrs but this extra capacity is to assist battery life and to allow the user to make the odd mistake over the charging regime (without consequent shortening of battery life) **not as an excuse to use the PWS1LM round the clock!** It should also be remembered that if a charge is missed or the battery is allowed to fully discharge it might never recharge again.

TROUBLESHOOTING GUIDE

Error	Description	Solution
The display reads uuuuuu	Connection fault The scale is below acceptable level for zero range	Check to see if leads are connected correctly, or if continuity has been disrupted (e.g. cable broken) Make sure nothing is obscuring free movement of the load-cell in the weighing platform
The display reads nnnnnn	Connection fault The scale is above acceptable level for full scale or overload	Check to see if leads are connected correctly, or if continuity has been disrupted (e.g. cable broken) Check to make sure the scale is not overloaded or above capacity.
Display turns itself off	Battery fault	Check to make sure the battery is fully charged and is suitable for use
Display is unstable or does not read correctly	Lead fault Battery fault	Check to see if leads are connected correctly, or if continuity has been disrupted (e.g. cable broken) Check to make sure the battery is fully charged and is suitable for use

TECHNICAL INFORMATION

Length	1150mm
Width	540 or 680mm
Width of Fork	185mm
Lowered Height	85mm
Lift Height	122mm
Raised Height	205mm
Weight	110kgs
Load Cells	4 x 1000kg capacity shear beam type
Capacity	2000kg
Resolution	0.5kg or 1kg
Accuracy	+/- 0.1% F.S.
System	6 Digit LCD Display with on/tare and off, battery and charger
Battery	12v 7AHC sealed rechargeable lead-acid
Charger	220/240v AC 1amp (Compact)

CE

Declaration of Conformity

Manufacturer	**Palway Ltd.**
Display Type	**Sigma2**

Corresponds to the following EC directives:

EMC Directive	**89/336/EEC**
Low Voltage Directive	**73/23/EEC**
Applicable Harmonised Standards	**EN 50 081-1** **EN 50 082-1** **EN 60 0950**

Please note that Palway Ltd reserve the right to alter the above specification in the pursuit of product development