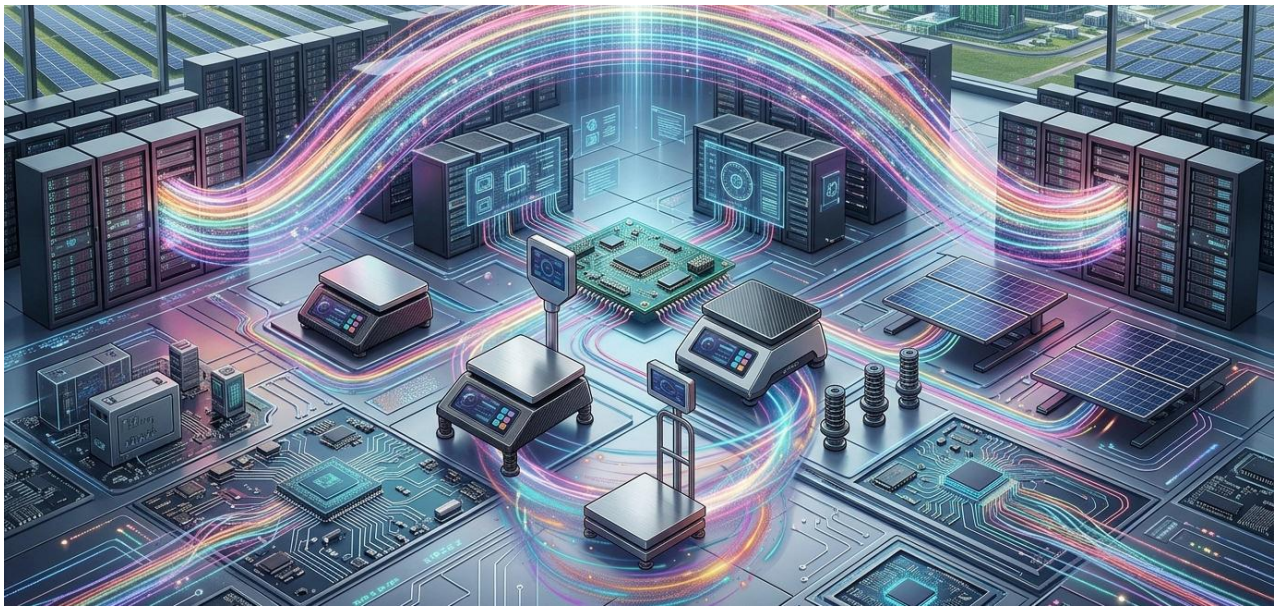
WEIGHING SCALE USER MANUAL

DAT Series (5 kg – 30 kg) | DAP Series (40 kg – 500 kg)

Table-top type Platform type

Document Name/Version: DANPHE/1.0



1.0 Introduction

This manual provides technical, operational, installation, and service information for DANPHE table-top and platform weighing scales with capacities from 5 kg to 500 kg. It is intended for inspectors, dealers, repairers, and end users.

Please read this manual carefully before installation and use. Correct installation and operation help extend equipment life and reduce weighing errors.

2.0 Technical Specifications

Specification	(DAT & DAP) Series
Maximum capacity (Max)	5 kg – 500 kg
Accuracy class	Medium Accuracy (III)
Verification scale interval (e)	2 g–100 g (as per modal approval document)
Power supply	220 V, 50 Hz AC / 6 V DC / 4 V DC
Operating temperature	0°C to +45°C
Load cell	Strain-gauge type
Display	7-segment LED
Keypad	Dome-based keypad

Descriptive plate information

The descriptive plate on the display housing identifies: Manufacturer, Brand, Model Approval No., Maximum Capacity, Minimum Capacity, Verification Scale Interval, Accuracy Class, Model No., Serial No., Temperature range and Tare Function.

3.0 Major Components

Main components: load receptor/platform, load cell(s), indicator/display unit, frame structure, mains wire/connector, and pole where provided.



4.0 Installation and Assembly

A. Packing list — DAT Series

Pan/weight receptor; four adjustable legs; scale body; pole with indicator where applicable; bolts/nuts.

Packing list — DAP Series

Pan; upper/lower frame with load cell attached; indicator; four adjustable legs; pole with indicator where applicable; safety grill; bolts/nuts.

(If any part is missing or you have a complaint about the purchased scale, inform your dealer.)

B. Assembly — DAT Series

- Remove the load-cell protection material, if fitted.
- Screw the four adjustable legs into the bottom of the scale.
- Fix the weight receptor to the load cell with the supplied screws, where applicable.
- Place the weighing pan on the receptor.
- Fix the pole and connect the pole display using the supplied wire/connector, where applicable.
- Place the scale on a level surface and adjust the feet for proper levelling.

C. Assembly — DAP Series

- Loosen/remove load-cell protection screws as applicable.
- Fit the four adjustable legs to the bottom frame.
- Place the pan on the upper frame.
- Fit the safety grills using the supplied bolts and nuts.
- Fix the pole and connect the pole display using the supplied wire/connector, where applicable.
- Place the scale on a level surface and adjust the feet for proper levelling.

5.0 Installation, Safety and Cleaning

Site requirements

- Flat, firm and vibration-free surface.
- Avoid direct sunlight, wind and strong magnetic fields.
- Use in a stable-temperature environment.

Installation checks

- Place the scale on a firm foundation and level it.
- Connect the indicator to the load cell.
- Connect the power supply.
- Switch ON and verify zero.
- Check readability of all display digits.

Cleaning

- Clean with a moist or dry cloth.
- Never use chemical solvents for cleaning.

Safety

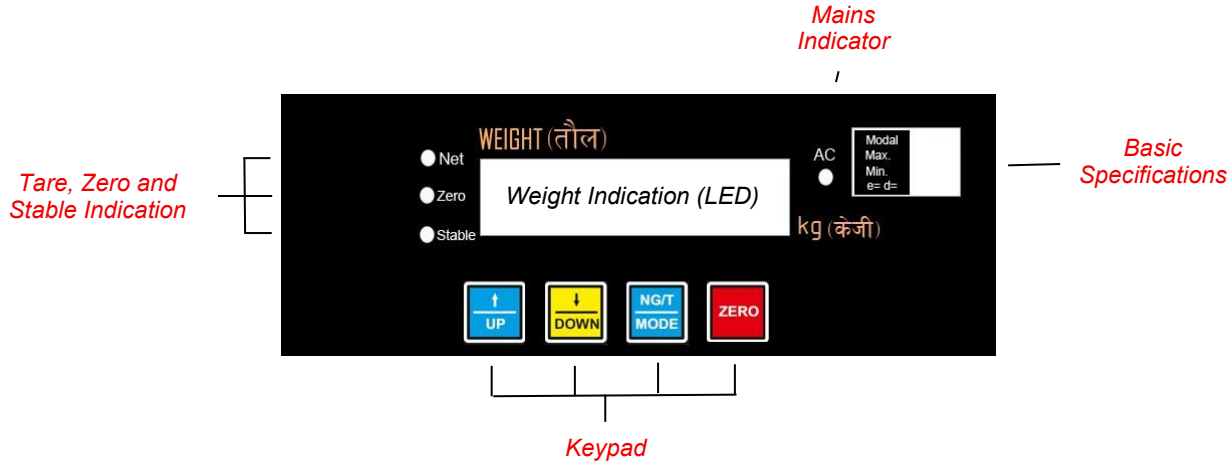
- Use the scale in a clean, dry and dust-free environment.
- Regularly check exposed/open wire conductors.
- Do not pour water or corrosive liquids on the scale.
- Never overload the scale.
- Maintenance/service should be carried out by a licensed repairer.





6.0 Display, Indicators and Keypad

Indicator/keypad positions may vary by model. Typical indications have Net/Tare, Mains, Zero and Stable indicators. Basic specification like modal, max, min, verification scale interval (e) are also presented in the indicator. The indicator consists of 7 segment display for weight indication in the middle. For scales intended to directly sales to the customer (maximum capacity ≤ 100 kg), a second display is also present in the other side of main indicator.



Key / Function	Purpose
Key 1 — ZERO / Confirm	Returns display to zero; used for parameter confirmation during authorized modes.
Key 2 — TARE / Mode	Deducts container weight and navigates through modes where applicable.
Key 3 — DOWN	Moves downward during authorized mode functions, e.g. calibration.
Key 4 — UP	Moves upward during authorized mode functions, e.g. calibration.

Important: Mode functions such as calibration, changing capacity, e value, etc. are activated only through the hardware calibration switch on the PCB and are not for normal user operation.

7.0 Troubleshooting 8.0 Accuracy Verification 9.0 Routine Good Practice

यी दिशानिर्देशहरू पालना गरी समस्याहरू समाधान गर्नुहोस्, शुद्धता जाँच्नुहोस्, र आफनो डाँफे तौल मेसिनको स्केललाई सही रूपमा कायम राख्नुहोस्।

	समस्या:	जाँचहरू / कार्यहरू:
	डिस्प्ले देखाइँदैन।	विद्युत आपूर्ति, ON/OFF स्विच, र जडान तार जाँच्नुहोस्।
	कुनै भार छैन / स्थिर भार छ।	लोड-सेल जडान जाँच्नुहोस्।
5kg	तौलमा भिन्नता छ।	वास्तविक तौलबाट फेरि क्यालिब्रेट / पुनः क्यालिब्रेट गर्नुहोस्। यदि भिन्नता रहिरहेमा डिलर वा नजिकको कानुनी मेट्रोलोजी कार्यालयसँग सम्पर्क गर्नुहोस्।
	किप्याड काम नगरेको।	किप्याड जडान जाँच गर्नुहोस्।
	अस्थिर संकेत देखिन्छ।	कम्पनरहित स्थानमा सार्नुहोस्; जाँच गर्नुहोस्; लोड-सेल जडान र उपकरण सुक्खा छ कि छैन।

6.0 शुद्धता जाँच

1. डिस्प्ले पढ्न सकिने छ र स्विच ON छ भनी सुनिश्चित गर्नुहोस्।
2. डिस्प्लेले शून्य (0.000) मा फर्किएको छ भनी जाँच गर्नुहोस्।
3. वास्तविक तौल राखेर डिस्प्लेमा देखिने मानको तुलना गर्नुहोस्।
4. तौल वास्तविक तौलसँग फरक भएमा, डिलर वा नजिकको कानुनी मेट्रोलोजी कार्यालयसँग सम्पर्क गर्नुहोस्।

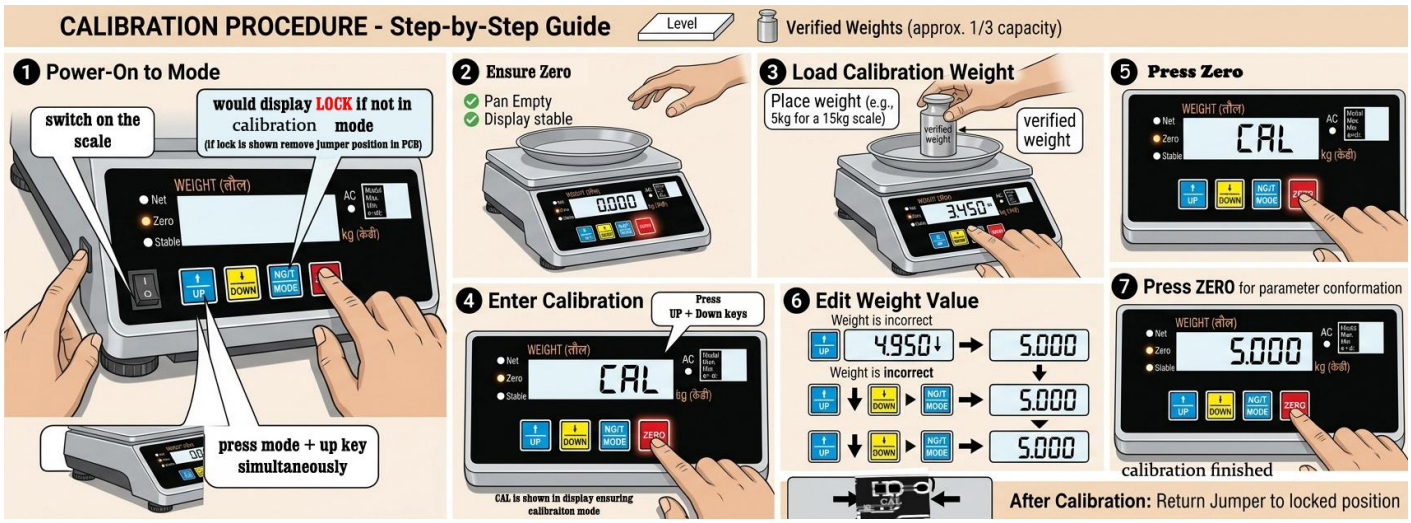
9.0 नियमित राम्रो अभ्यास

- स्केलमा बढी तौल नराख्नुहोस्।
- तौलिने सतहलाई सफा र सुख्खा राख्नुहोस्।
- लोडहरू केन्द्रित रूपमा राख्नुहोस्।
- ५–१० मिनेटको वार्म-अप समय दिनुहोस्।
- मर्मतका लागि केवल अधिकृत/योग्य सेवा कर्मचारी मात्र प्रयोग गर्नुहोस्।

10.0 Using the Weighing Scale (सामान्य अवस्थामा प्रयोग गर्ने तरिका)



11.0 Calibration (मिलान गर्ने विधि)



12.0 Warranty (वारेन्टी)

Item	Warranty condition
Warranty period	12 months (१२ महिना)
Coverage	Manufacturing defects only (उत्पादन त्रुटीहरु मात्र समावेश हुने)
Not covered	Damage due to overvoltage or mishandling, plastic components

13.0 Dealer Contact Information (अधिकृत बिक्रेताको सम्पर्क)

Name: _____
Address / Phone _____
_____
Email _____
Date of Sales _____
Bill No. _____

छाप

सहि

14.0 Manufacturer (उत्पादक)

DANPHE ENGINEERING INDUSTRY, BANKE, NEPAL

www.danpheengineering.com.np

डाँफे इन्जिनियरिङ उद्योग, बाँके, नेपाल

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[NOTE: MORE DETAIL MANUAL IS AVAILABLE IN THE COMPANY'S OFFICIAL WEBPAGE]