



# D31P75SD Bench Scale INSTRUCTION MANUAL



# 1. SAFETY INFORMATION

## Definition of Signal Warnings and Symbols

- WARNING** For a hazardous situation with medium risk, possibly resulting in injuries or death if not avoided.
- CAUTION** For a hazardous situation with low risk, resulting in damage to the device or the property or in loss of data, or injuries if not avoided.
- Attention** For important information about the product.
- Note** For useful information about the product.

### Warning Symbols



General hazard



Electrical shock

### Safety Precautions



**CAUTION:** Read all safety warnings before installing, making connections, or servicing this equipment. Failure to comply with these warnings could result in personal injury and/or property damage. Retain all instructions for future reference.

- Verify that the local AC power supply voltage is within the input voltage range printed on the equipment's or AC adapter's ratings label.
- Only connect the AC power cord or AC adapter to a compatible grounded socket.
- Position the instrument such that the AC power cord or AC adapter can be easily disconnected from the socket.
- Position the power cord so that it does not pose a potential obstacle or tripping hazard.
- Operate the equipment only under ambient conditions specified in the user instructions.
- Do not operate the equipment in hazardous or explosive environments.
- Disconnect the equipment from mains power before cleaning or servicing.
- Service should only be performed by authorized personnel.

### Intended Use

Use the instrument exclusively for weighing as described in the operating instructions. Any other type of use and operation beyond the limits of technical specifications without written consent from OHAUS, is considered as not intended. This instrument complies with current industry standards and the recognized safety regulations; however, it can constitute a hazard in use.

If the instrument is not used according to these operating instructions, the intended protection of the instrument may be compromised and OHAUS assumes no liability.

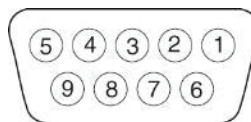
## 2. INSTALLATION

### 2.1 External Connections

#### RS232 Interface Cable to T31P

Connect the optional RS232 cable to the RS232 connector.

Pin	Connection
1	N/C
2	TXD
3	RXD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C



#### AC Power Cord/Adapter Installation

Connect the AC mains/adapter power cord to the instrument's power input connector, and then connect the AC plug to a suitable electrical outlet.



**Attention:** Only use an AC adapter specified by OHAUS

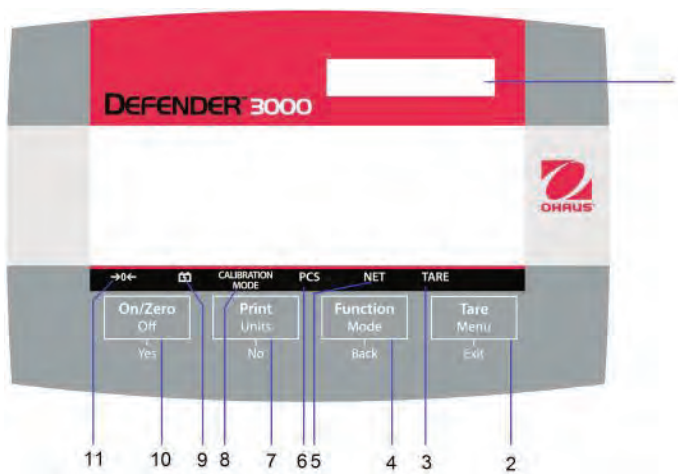
**Rechargeable Battery Power**

Allow the battery to charge for 12 hours before using the scale on battery power. The instrument can be operated during charging, and the battery is protected against overcharging. For maximum operating time, the battery should be charged at room temperature.

**3. OPERATION**

**3.1 Overview of Display and Controls**

Item	Description
1	Capacity label window
2	TARE Menu button
3	TARE symbol
4	FUNCTION Mode button
5	NET symbol
6	Pieces symbol
7	PRINT Units button
8	Calibration Mode symbol
9	Battery symbol (T31P)
10	ON/ZERO Off button
11	Center of Zero symbol



**Control Functions**

Button	On/Zero Off Yes	Print Units No	Function Mode Back	Tare Menu Exit
Primary Function (Short Press)	ON/ZERO Turn indicator on. Zero the display.	PRINT Send the displayed value to the COM port.	FUNCTION Initiate the function of the current application mode.	TARE Perform a tare operation.
Secondary Function (Long Press)	Off Turn indicator off.	Units Change the weighing unit.	Mode Allows changing the application mode. Press and hold allows scrolling through modes.	Menu Enter the menu. View the Audit Trail event counters (extended press)
Menu Function (Short Press)	Yes Accept the current menu or setting.	No Advance to the next menu or setting. Increment the displayed value.	Back Go back to the previous menu or setting. Decrement the displayed value.	Exit Exit the menu. Abort the calibration in progress.

### 3.2 Menu Structure

CALIBRATION	SETUP	READOUT	MODE	UNIT	PRINT	MENU LOCK	END
↳ SPAN	↳ RESET	↳ RESET	↳ RESET	↳ RESET	↳ RESET	↳ RESET	
↳ LINEARITY	↳ NO	↳ NO	↳ NO	↳ NO	↳ NO	↳ NO	
↳ GEO	↳ YES	↳ YES	↳ YES	↳ YES	↳ YES	↳ YES	
↳ 0...31	↳ LEGAL FOR TRADE	↳ AVERAGING	↳ COUNT	↳ KILOGRAM	↳ BAUD	↳ LOCK CAL	
↳ END CAL	↳ OFF	↳ LOW	↳ OFF	↳ OFF	↳ 300, ...19200	↳ OFF	
	↳ ON	↳ MEDIUM	↳ ON	↳ ON	↳ PARITY	↳ ON	
	↳ CALIBRATION UNIT	↳ HI	↳ END MODE	↳ POUND	↳ 7 EVEN	↳ LOCK SETUP	
	↳ KILOGRAM	↳ AUTO ZERO		↳ OFF	↳ 7 ODD	↳ OFF	
	↳ POUND	↳ OFF		↳ ON	↳ 7 NONE	↳ ON	
	↳ CAPACITY	↳ 0.5d		↳ GRAM	↳ 8 NONE	↳ LOCK READOUT	
	↳ 5, ...20000	↳ 1d		↳ OFF	↳ STOP	↳ OFF	
	↳ GRADUATION	↳ 3d		↳ ON	↳ 1	↳ ON	
	↳ 0.001...20	↳ EXPAND MODE		↳ OUNCE	↳ 2	↳ LOCK MODE	
	↳ POWER ON UNIT	↳ OFF		↳ OFF	↳ HANDSHAKE	↳ OFF	
	↳ AUTO	↳ ON		↳ ON	↳ OFF	↳ ON	
	↳ GRAM	↳ BACKLIGHT		↳ POUND OUNCE	↳ XON-XOFF	↳ LOCK UNIT	
	↳ KILOGRAM	↳ AUTO		↳ OFF	↳ STABLE ONLY	↳ OFF	
	↳ POUND	↳ ON		↳ ON	↳ OFF	↳ ON	
	↳ OUNCE	↳ OFF		↳ END UNIT	↳ ON	↳ LOCK PRINT	
	↳ POUND OUNCE	↳ AUTO OFF			↳ AUTO PRINT	↳ OFF	
	↳ ZERO RANGE	↳ OFF			↳ OFF	↳ ON	
	↳ 0%	↳ SET 1			↳ WHEN STABLE	↳ END MENU LOCK	
	↳ 2%	↳ SET 2			↳ INTERVAL		
	↳ 100%	↳ SET 5			↳ 1...3600		
	↳ END SETUP	↳ END READOUT			↳ CONTINUOUS		
					↳ CONTENT		
					↳ GROSS		
					↳ NET		
					↳ TARE		
					↳ UNIT		
					↳ END PRINT		

## 4. MAINTENANCE

### 4.1 Cleaning



**WARNING:** Electric Shock Hazard. Disconnect the equipment from the power supply before cleaning. Make sure that no liquid enters the interior of the instrument.



**Attention:** Do not use solvents, harsh chemicals, ammonia or abrasive cleaning agents.

The exterior surfaces of the instrument may be cleaned with a cloth dampened with water and a mild detergent.

### 4.2 Troubleshooting

For technical issues contact an Authorized Ohaus Service Agent. Please visit our website [www.ohaus.com](http://www.ohaus.com) to locate the Ohaus office nearest you.

## 5. TECHNICAL DATA

The technical data is valid under the following conditions:

Operating temperature range: -10°C to 40°C

Relative humidity: Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.

Altitude: up to 2000m

Mains supply voltage fluctuations: up to  $\pm 10\%$  of the nominal voltage

Pollution degree: 2

Installation category: II

### Specifications:

Model	D31P75SD
Capacity x Readability	75 kg x 0.02 kg 165 lb x 0.5 lb
Weighing Units	kg, lb
Modes	Weighing, Parts Counting
Stabilization time	Within 2 seconds
Zero range	To capacity by subtraction
Maximum Overload	150%
Battery Operating Time	70-hour typical life
Operating Temperature Range	-10°C to 40°C/14°F to 104°F
Cable Length	1.8m / 72" (uncoiled)
Display	1 in./2.5 cm digit height, 6-digit, 7-segment 1.5 in./3.8 cm high x 4.9 in./12.5 cm wide backlit LCD
Scale Base Size	316mm L x 280mm W x 45mm H / 12.4" L x 11" W x 1.77" H
Indicator Size	210mm L x 168mm W x 71mm H / 8.2" L x 6.5" W x 2.8" H
AC Adapter	9-12 Volt DC, 500mA
Net Weight	4.7 kg / 10.3 lb
Shipping Weight	8 kg / 17.6 lb



## INSTRUCTION MANUAL

For more detailed information about the T31P indicator, please refer to the product instruction manual. The instruction manual can be obtained either by scanning the QR code or by going to the product page and from there download it. Go to [www.ohaus.com](http://www.ohaus.com) to register your product's warranty.

**Product Page:** <http://www.ohaus.com/>

QR Code:



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