

**RANGER
INSTRUMENTS**



6500

Operators Manual

For use with software versions 1.xx

6500-602 Rev 1.0

Introduction

The **6500** is a member of the latest generation of Ranger remote displays.

Features

- 75mm six digit electromechanical alpha-numeric display
- Annunciators for Net/Motion/Center of Zero
- Visibility to 40 meters
- Fast updates

Manuals

The Operators Manual (this document) is intended for the end user of the Ranger **6500**. The other manuals covering the **6500** are:

- **6500** Reference Manual (6500-600);
- **6500** Quick Start Manual (6500-601).

These manuals are available for download from the Ranger Instruments web site:

www.rangerinstruments.com.

Operating Environment

Temperature: -10°C to 50°C

Humidity: <90% Non-condensing

DO NOT EXPOSE THE INSTRUMENT TO EXTREME ENVIRONMENTAL CONDITIONS

Electrical Safety

Warning



**DISCONNECT POWER
BEFORE OPENING**

The **6500** contains high voltages capable of causing electrocution. Disconnect the AC power supply before opening the unit. The display contains no user serviceable components.

For your protection all main electrical hardware must be rated to the environmental conditions of use.

The earth connection must be used to ensure the electrical safety of the unit.

Pluggable equipment must be installed near an easily accessible socket outlet. A permanently connected supply must have a easily accessible isolation device.

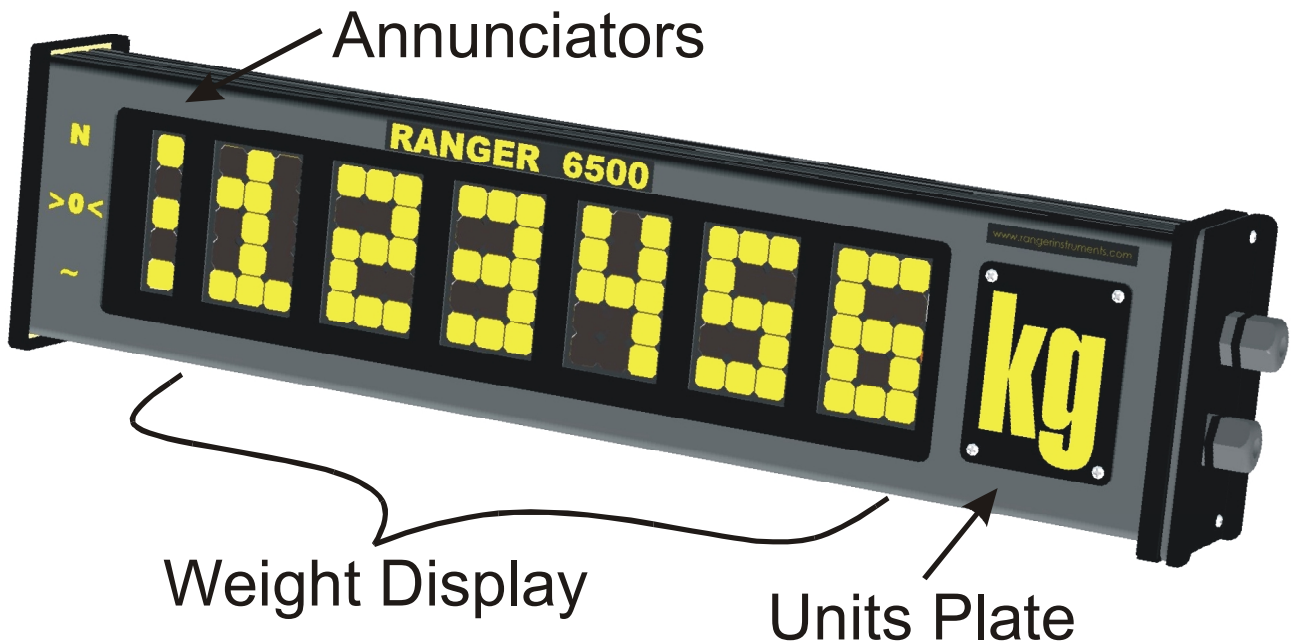
To avoid the possibility of electric shock or damage to display, always switch off or isolate the display from the power supply before maintenance is performed.

Cleaning

Never use abrasive cleaners or solvents when cleaning the unit. The display can be wiped down with a clean cloth or with a mixture of a small amount of washing up liquid and water dampened on to a cloth.

Display Elements

The diagram of the **6500** below shows the main elements of the front panel.



Weight Display

The Weight Display indicates the weight readings, setup information, errors and warnings.

Units Indicator Plate

The Unit Indicator Plate is attached to indicate the units of the reading.

Annunciators

The left most strip on the display form the annunciator bank, which show the status of the displayed reading. The status annunciators indicate the following conditions:

Name	Symbol	Description
ZERO	→0←	Lit when the indicator is indicating zero.
NET	N	Lit when the display reading represents NET weight.
MOTION	~	Lit when the displayed reading is not stable.

Error Messages

Configuration Errors

Error	Description
ER.DAT	There is no data being received by the unit.
ER.RX	The baud rate/parity or stop bits are incorrect.
ER.ETX	No ETX character was found in the data stream.
ER.FLD	The data stream does not match any format.
ER.LEN	The field to be displayed is longer than 6 digits.

Weighing Errors

(U-----)	The weight is below the minimum allowable weight reading.
(O-----)	The weight is above the maximum allowable weight reading.
(-----)	The weight being transmitted is invalid (as per remote indicator).

Operating Errors

Code	Error Description
E 0001	The power supply voltage is too low
E 0002	The power supply voltage is too high
E 0100	The digital setup information has been lost
E 0300	All setup information has been lost
E 0400	The factory information has been lost
E 0800	The EEPROM memory chip has failed
E 8000	The EPROM memory chip has failed

The “E” type error messages are in hexadecimal and are additive (eg 0900 = 0800 + 0100).



This document contains a general guide only of the operation of the product and shall not form any contract. The specifications of the product may be altered without notice.