

# OPERATION AND MAINTENANCE MANUAL



**Scale with multifunction display**  
**Art. R060 – R100**



ORIGINAL INSTRUCTIONS

## FOREWORD



### **Read this manual before operating any machinery**

#### **ORIGINAL INSTRUCTIONS**

Before starting any operation it is compulsory to read this instruction manual. The guarantee of smooth operation and full performance of the instrument is highly dependent on the application of all the instructions contained in this manual.



### **Operator Qualification**

The workers responsible for using this tool must have all the necessary information, education and receive adequate training regarding safety, including:

- a) The conditions of use of the equipment;
- b) Foreseeable abnormal situations, pursuant to Article 73 of Legislative Decree 81/08.

*We guarantee the instrument complies with the specifications and technical instructions described in the Manual on the date of its issuance (shown in this page). On the other hand, the instrument may also be subject to important technical changes in the future, without the manual being updated.*

*Therefore, see FERVI for information about modifications that could be implemented.*



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## 1 DESCRIPTION OF THE INSTRUMENT

Digital scale with LCD display, precision to 0.01mm (0.001"); or conversion to measurement in millimetres or inches, easy to attach to different machines for the metal and wood machining via the magnetic back and fixed attachment.

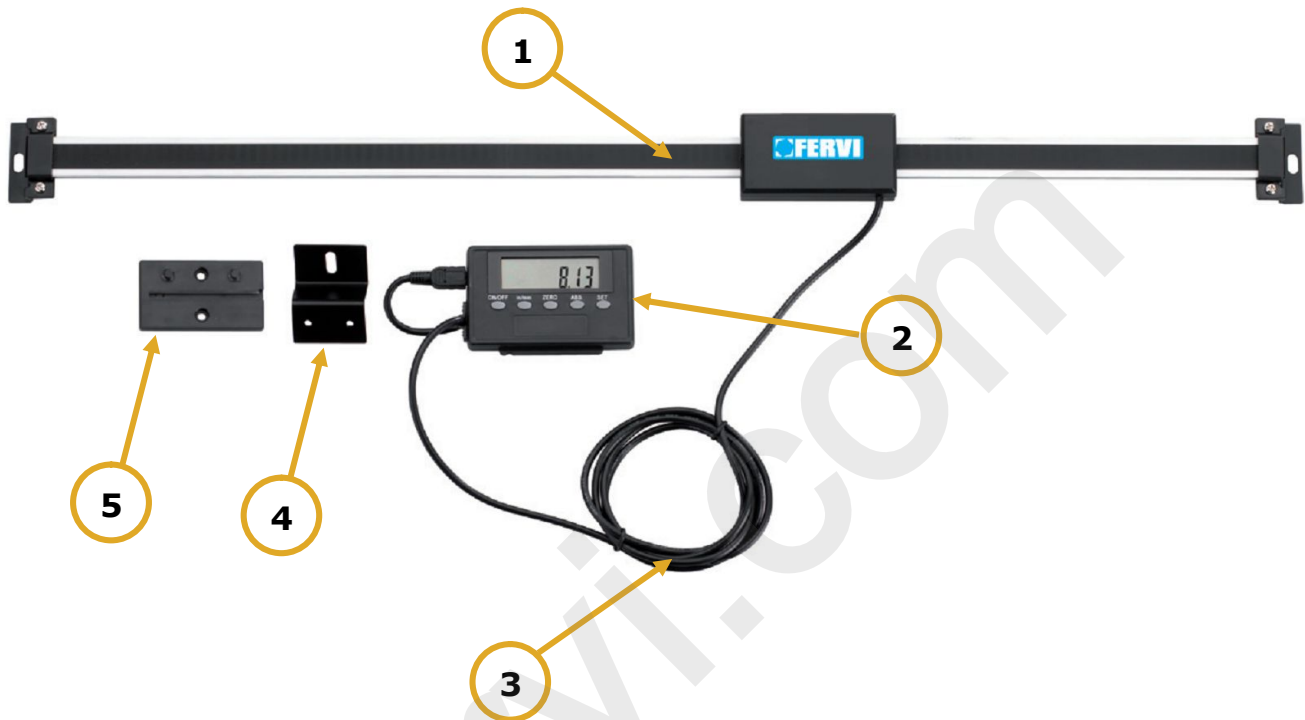


Figure 1 - Overview of the device

1	Scale body
2	Display and control keypad
3	Connection cable
4	Sensor attachment bracket
5	Display support



## 1.1 Display Functions

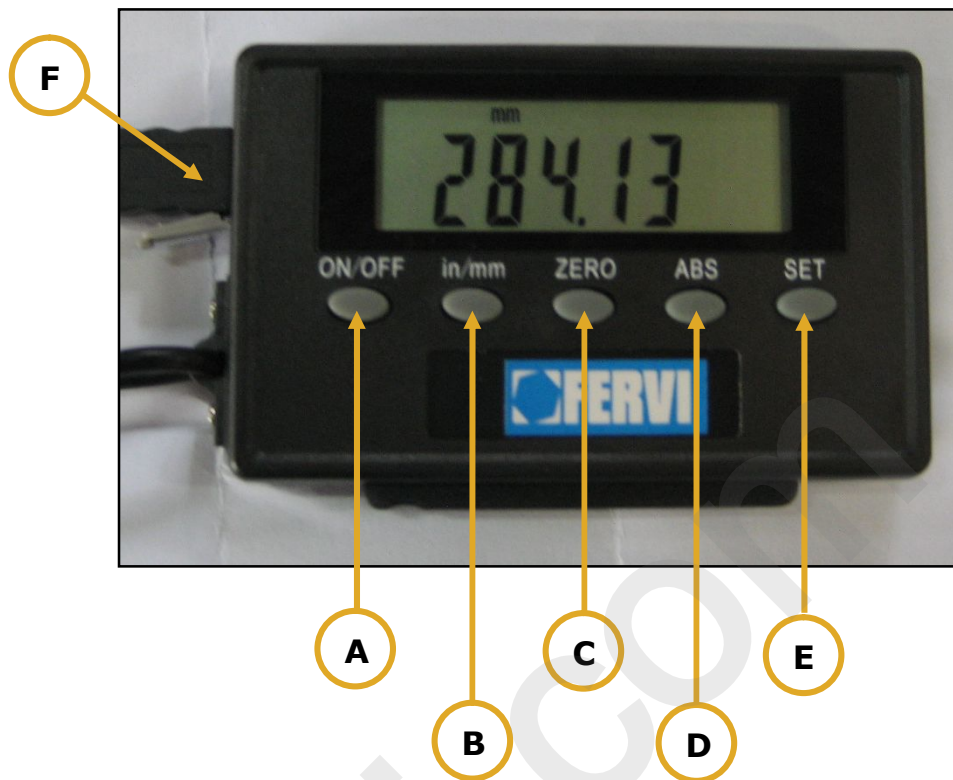
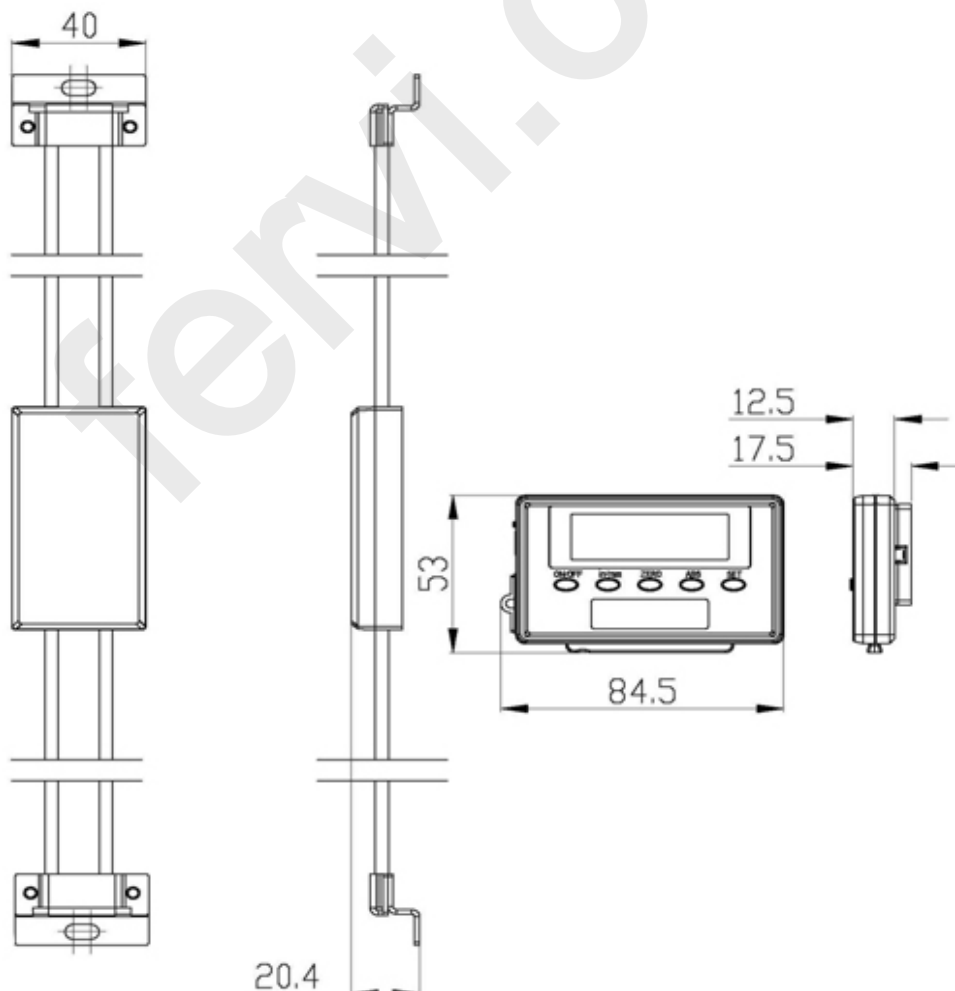


Figure 2 - Display details

- A ON/OFF:** Button for switching the scale on and off.
- B in/mm:** Button to change from measurements in inches to millimetres
- C ZERO:** Button to reset the scale.
- D ABS:** Button to switch from a relative zero to an absolute measure.
- E SET:** During measurement in inches, press this button to display a fraction of an inch closer to the measurement made from the following: 1/32", 1/64", 1/128"
- F** Mini USB connector for connection to the sensor on the scale

## 1.2 Technical characteristics

Dimensions:	
Total length	~ 1030 mm
Measurable length	~ 1022 mm
Total width:	40 mm
LCD Display:	84.5x53x12.5 mm
Sensor:	75x40x15.2 mm
Characteristics:	
Resolution:	0.01 mm
Accuracy:	$\pm 0.15$ (0÷200) $\pm 0.20$ (200÷400) $\pm 0.30$ (400÷600) $\pm 0.40$ (600÷1000)
Power supply:	
Voltage:	DC 2.5 ~ 3.2 V
Intensity of current:	$\leq 45\mu\text{V}$ off $\leq 85\mu\text{V}$ on



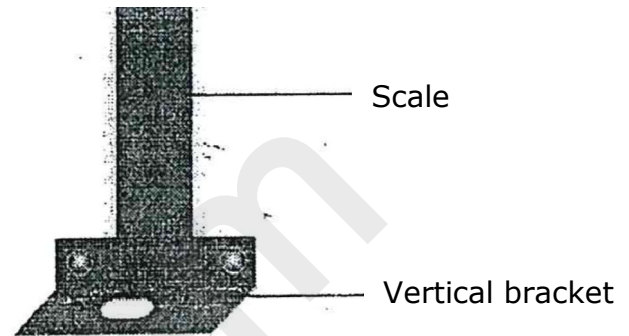


## 2 ASSEMBLY

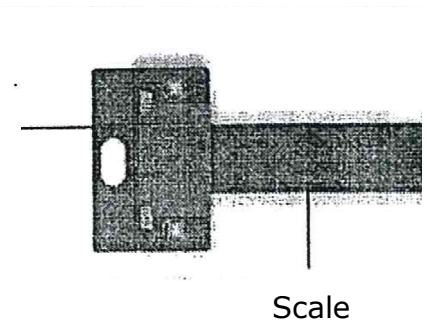
The scale is equipped with support plates which can be used for mounting in various positions as chosen by the user. Normally the scale is installed in a fixed position and the sensor in a movable position. However, inverse mounting of the parts is possible for certain applications.

### 2.1 Positioning of the scale

- To measure a vertical displacement the bracket can be fixed in a vertical position and the carriage to the movable part:
- To measure a horizontal displacement the bracket can be fixed in a horizontal position and the carriage to the movable part:



Horizontal  
bracket

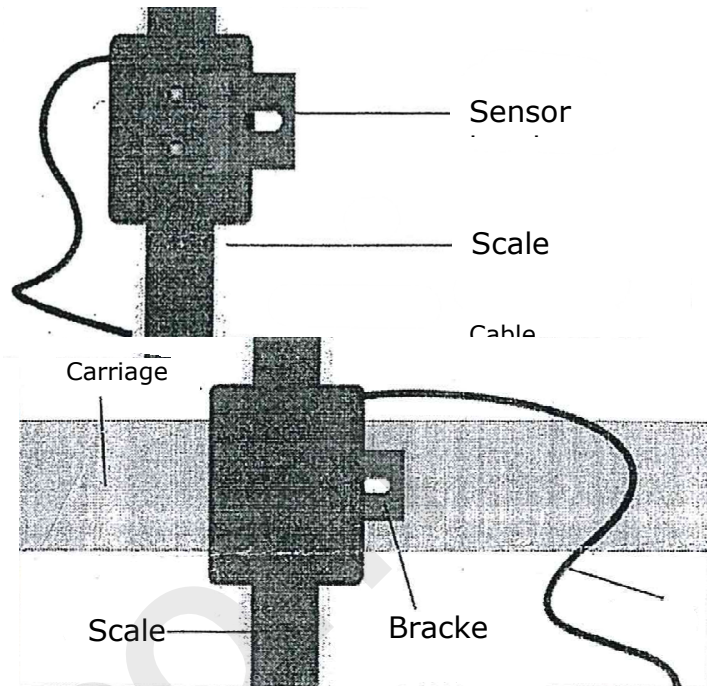


### Dimensions of the scale

It is possible to cut the scale by the amount necessary for it to be used. The operation of the scale will not vary according to its length. Then remount the bracket onto the cut end

## 2.2 Positioning of the sensor

- Assemble the bracket onto the rear of the sensor using the screws supplied.
- Mount the sensor on the movable carriage or other moving part.



## 2.3 Positioning of the display

- It is possible to use the magnetic part on the back of the display to position it anywhere on the machine.
- It is possible to use the base supplied to place the display in the desired position.

