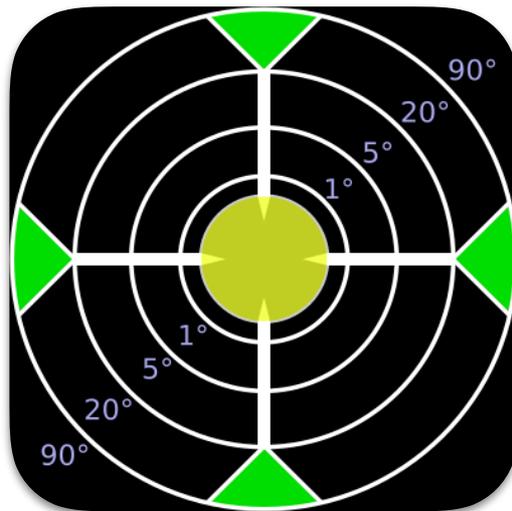


TILT MONITOR APPLICATION FOR ANDROID

USER MANUAL





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Tilt Monitor is a convenient visual guide to monitor the inclinations of a machine allowing to perform operations that require control over the angles.

The application communicates with our system, receiving data from the tilt sensor on the machine, allowing the operator to monitor the tilt during work.

1. BLUETOOTH SETUP

Once downloaded and installed Tilt Monitor App activate the Bluetooth connection on your device (Fig.1 e Fig.2).

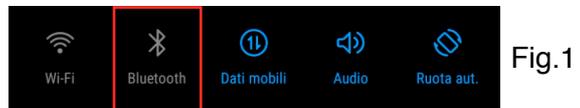


Fig.1

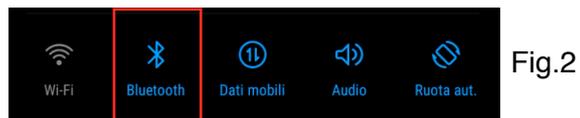


Fig.2

If your device's bluetooth is disabled, a warning message will appear at the bottom of the screen "BT DISABLED" (Fig.3).

By activating the Bluetooth, the message becomes "Connecting" (Fig.4).

The warning message disappears when connection is established.



Fig.3

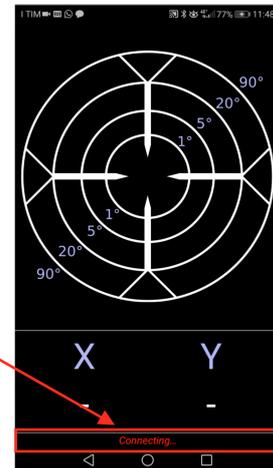


Fig.4

2. MAC ADDRESS

Clicking on the monitor screen (Fig.5) you access the settings (Fig.6). To connect the application to the tilt sensor click on "MAC address" and enter the MAC address of your system.

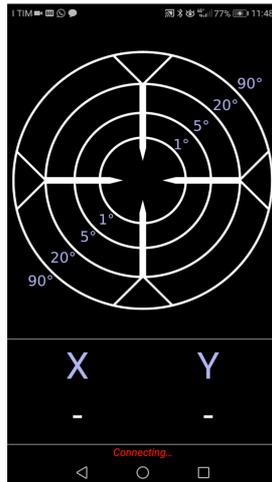


Fig.5 (monitor)

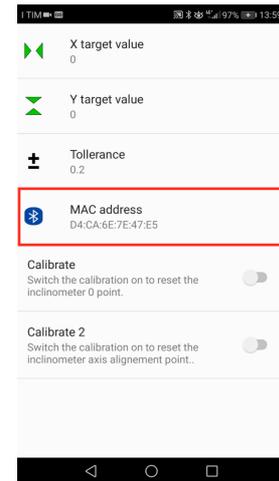


Fig.6 (impostazioni)

3. TOLERANCE

The tolerance (Fig.7) is the error considered acceptable for the work to be done.

When the tilt of the machine is within the tolerances, the axes of the monitor become green (Fig.8).

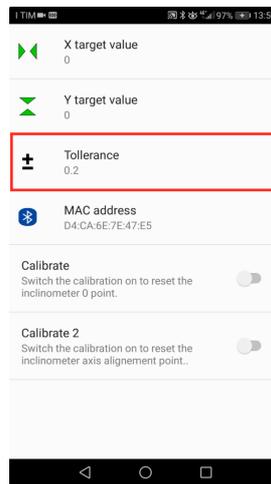


Fig.7



Fig.8

4. MONITOR

Once the App has been configured correctly, you will see the screen as shown in figure 9, showing the tilt of the X and Y axes expressed in degrees (Fig.10). The bubble (yellow circle) indicates the distance from the target tilt.

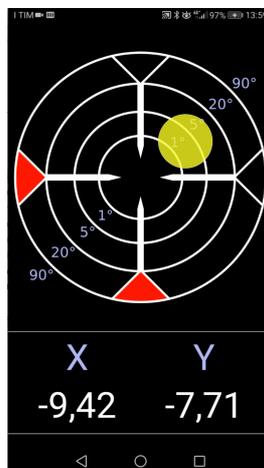


Fig.9 tilt monitor

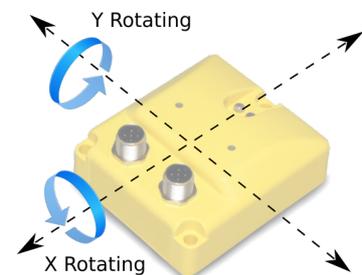


Fig.10 tilt sensor

5. CALIBRATION

Put the machine in perfectly vertical position and acquire the 0 (zero) by pressing "calibrate" as shown in fig.11
 Now tilt the machine by about 20°/30° along Y axes and click on "calibrate 2" as shown in fig.12.

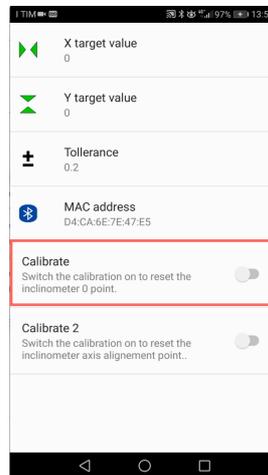


Fig.11

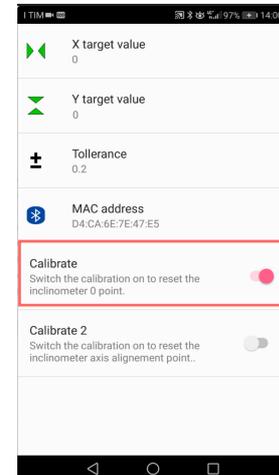


Fig.12

6. X/Y TARGET

By pressing one of the two labels "X target value" or "Y target value" (Fig.13) a dialog box will open (Fig.14) where it is possible to enter the value of the desired tilt on one of the two axes. The bubble of the monitor will be centered on the set values.

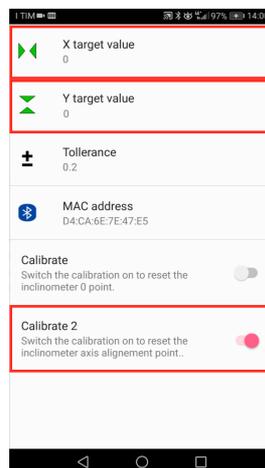


Fig.13

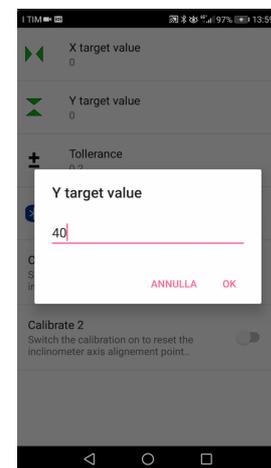


Fig.14