



***Bio Instruments S.R.L.***

PHYTO-SENSOR SYSTEM

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**FI-Lz, FI-Mz, FI-Sz**  
***Fruit Growth Sensors***



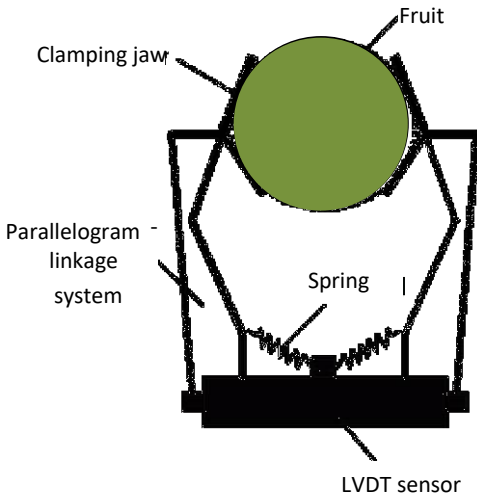
[www.phyto-sensor.com](http://www.phyto-sensor.com)



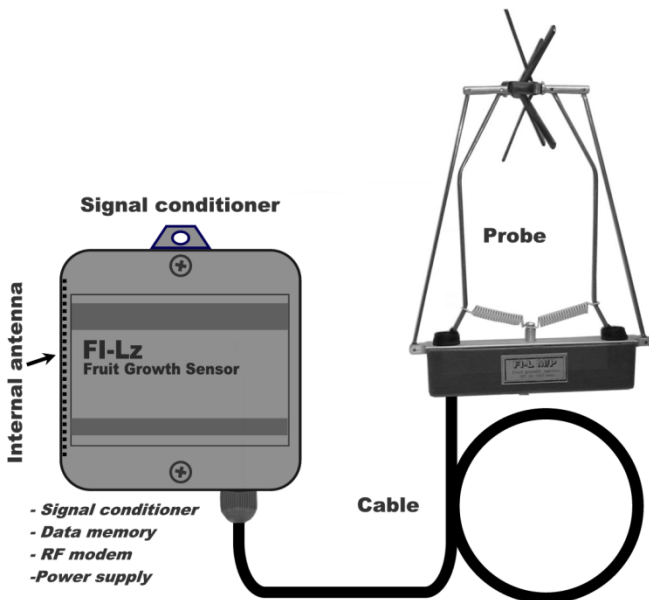


## Introduction

A series of absolute displacement sensors provides recording both size and growth rate of intact rounded fruits in three diameter ranges within 7 to 160 mm. Original parallelogram design of moving arms provides firm and straight positioning of the sensor's flaps on a fruit under study. The FI-type sensor consists of an LVDT transducer mounted in a special clip, and a DC powered signal conditioner.



The FI probe comes with the 1-m cable, and a weatherproof box with electronics, which combines signal conditioner, primary datalogger, RF 2.4 GHz transceiver, and power supply (3xAA Alkaline batteries).

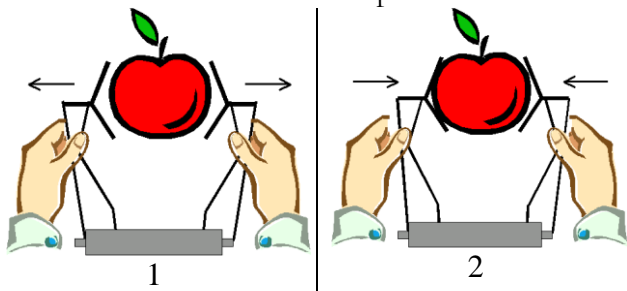


## Communication

The sensor communicates over the radio 2.4 GHz channel with a network data logging unit. Activation of the sensor and measurement settings are described in the 'PM-11z Phytomonitor Quick Start Guide'

## Installation

- Choose a fruit for attaching the sensor.
- Move clamping jaws apart so as the sensor can hold the fruit in the desired position.



- Check if the sensor holds the fruit firmly and cannot easily slide down with application of gentle force.
- Secure the sensor's cable on a stem to prevent occasional movement of the sensor.
- Check the position of the sensor regularly.

## Specifications

	<b>FI-Lz</b>	<b>FI-Mz</b>	<b>FI-Sz</b>
Measurement range, mm	30 to 160	15 to 90	7 to 45
Resolution, mm	0,065	0,038	0,019
Operation temperature	from 0 to 50 °C		
Temperature drift	< 0.02% FS/°C		
Protection index	IP 64		
Cable length	1 m		
Power	Three AA Alkaline batteries		

### ***Customer Support***

If you ever need assistance with your sensor, or if you just have questions or feedback, please e-mail at [support@phyto-sensor.com](mailto:support@phyto-sensor.com). Please include as part of your message your name, address, phone, and fax number along with a description of your problem.



# Phyto-Sensor Group

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