



Bio Instruments S.R.L.

SENSORS AND SYSTEMS
FOR MONITORING GROWING PLANTS

SA-20z
Auxanometer



Introduction

The SA-20z Auxanometer is a draw thread displacement transducer. The output of the SA-20z is proportional to the amount of thread pulled out of the unit. The thread is a plastic stretch-resistant cord, and it is tensioned by an internal spring pack. A thread begins with a ring for connecting an extension wire (thread, cord, or clip) provided by a user. A thread outlet is located at the bottom panel of the housing. A guide wheel and a lug provide the upward thread direction.

The SA-20z comes in a weatherproof box with electronics, which combines displacement sensor, signal conditioner, primary datalogger, RF 2.4 GHz transceiver, and power supply (3xAA Alkaline batteries).

Communication

The SA-20z 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'

Power

The SA-20z is powered by three AA Alkaline batteries.

Installation

To be mounted on a trunk or another base with the use of screws or cable ties (not included into delivery set).

Installation simply involves bolting down the housing and then attaching the draw thread to the part, which is to be measured.

Specifications

Measurement range: 0 to 500 mm

Resolution: 0.1mm

Operating temperature: 0 to 50°C

Thread tension: 40 to 60 g

Protection index: IP 53

Overall dimensions, mm: 170 × 160 × 90

Customer Support

If you ever need assistance with your SA-20z, or if you just have questions or feedback, please e-mail at 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.



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