



EMS Brno

Data Acquisition Environment

Hardware – Software – Cloud application

www.emsbrno.cz

Dendrometer Increment Sensor DB20

Description

The increment band consists of a buckle assembly (stainless pad with a scale and a sliding tape with nonius) and the fixing tape. The buckle is fixed just by folding of both ends of fixing tape during installation to the tree trunk. The tape is delivered in 20 m long spools for cutting according to the trunk diameter. The sensor can be used for more installations; the tape if it is not crumpled can be used more times with smaller diameters, too.

Specification

Tree size:	8 cm in diameter and larger
Increment range:	60 mm
Minimal spring tension:	5 N @ 0 mm
Maximal spring tension:	15 N @ 50 mm
Tape material:	stainless steel
Buckle material:	stainless steel
Spring:	stainless steel
Resolution:	0.1 mm
Reading:	manual

Installation:

1/ Cut a piece of tape ca 7 cm shorter than the stem circumference

2/ Fold one end of the tape and insert it into the clip (that one on the bottom side of the pad)



3/ Set the scale to the right position and wrap the tape around the trunk



4/ Interlace the tape through the other clip



5/ and fold it



.....

6/ Watch the scale – the correct position is a few millimeters behind zero



7/ Never do it like this – wrong position!



8/ The installation finishes – final view



Brno, March 2017