



Environmental Measuring Systems

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Dendrometer Increment sensor DRL 26C with built-in datalogger

Main features:

- Rotary position sensor
- Step-less reading
- No upper limit in stem diameter
- Built-in datalogger
- IR data access
- Optional internal temperature logging
- Non-invasive fixing
- Manufactured by EMS



Brief specifications:

- Minimal stem diameter 8 cm
- Increment range 65 mm
- Resolution less than micrometer
- Linearity 2% over full range
- Memory capacity 50,000 readings
(4 years when measuring each hour)
- Battery capacity ca 5 years
(when measuring each hour)
- Tightening strength 15 to 20 N
- Temperature measurement accuracy ± 0.3 deg.C
- Fixing tape from stainless steel 12 x 0.2 mm

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Specifications

Increment sensors type	rotary position
Range	64 mm of circumference
Linearity	2 % of full scale
Resolution	less than 1µm
Datalogger measuring accuracy	±0.1 %
Tape strength	15 to 20 N in the whole range, stem diameter independent
Tape temperature coefficient:	1.6×10^{-5}
Operating range:	
- temperature	- 30 to 60 °C
- humidity	0 to 100 %
Temperature sensor accuracy	±0.3 deg.C
Datalogging unit:	
- memory capacity	50,000 values typically
- measuring interval	10 min to 24 hrs
- averaging (storing) interval	10 min to 24 hrs
- internal clock accuracy (-10 to 40°)	± 1 min per month
- input voltage resolution	16-bit
Battery lifetime:	Lithium LS14250CN 3,6 V; 1000 mAh
- storage time/idle run (logging stopped)	ca 5.5 years
- when measured every 1 hr	ca 5 year
- when measured every 10 minutes	3 years
Size	100 x 70 x 100 mm
Weight (incl. battery)	ca 350 g