



ELTIM C-frame

Erhardt+Leimer

Basis weight measurement

Thickness measurement

Your smart solution for basis weight and thickness measurement

The ELTIM C-frame is an intelligent measuring system for the highly accurate determination of basis weight and thickness of continuously running material webs. The compact C-frame is available as a permanently mounted unit or optionally installed on a traverse to enable measurement at different web positions.

Thanks to its open design on one side, it impresses with minimal installation dimensions, high flexibility and simple integration whether for static inline measurement, as a traversing system or as a laboratory unit for individual measurements.

The ELTIM C-frame uses proven ultrasonic technology for non-contact and radiation-free basis weight measurement of e.g. plastic films, coatings, laminates and numerous other materials. It is ideal for static point measurements but can also be used for traversing measurements in applications with limited installation space.



Compact and flexible

Space-saving and easy to integrate

Ideal for systems with limited installation space or access from one side – also for retrofitting.

Flexible in use

Optionally available on linear guide with motor drive – for flat measurements over the entire traversing path.

Improved accessibility

Open design on one side – for easy operation, cleaning and visual inspection.

Versatile use - inline or offline

Also available as a stand-alone version for laboratory environments – ideal for development, quality assurance or sample testing.

Robust and maintenance-free

Durable, reliable and without mechanical maintenance – for maximum availability.

ATEX – EU explosion protection directive

ELTIM systems will soon be available in special versions for use in EX areas. Ex zones and design on request.



Technical Data	
Measuring range (basis weight measurement)	Up to 1000 g/m ²
Measuring accuracy	< ± 0.5 % of the basis weight of the calibration piece
Resolution	0.001 g/m ²
Sensor type	US ultrasonic sensor
Measuring point size	Ø 25 mm
Cycle time of measuring system	120 Hz
Passage height	40 mm (from measuring head to measuring head)
Height fluctuation of the web	± 5 mm in the middle; no fluttering
Actuating speed (with traverse version only)	300 mm/s
Relative humidity	15 % to 95 % (non-condensing)
Ambient temperature	+10 °C to +50 °C
Ambient temperature at the sensor	+10 °C to +70 °C
Storage temperature	-20 °C to +80 °C
Protection rating	UL 50e, Type 12
Power supply	24 V DC, 4 A
Nominal width	220 mm to 600 mm (larger widths on request)
Dimensions NB (nominal width)	L (NB + 217 mm) x H 144 mm x D 140 mm