

# Rightrax LT Specifications

## Online Corrosion Monitoring System

M2 Sensor	
Sensor type	14-element linear array
Nominal frequency	8.0 MHz
Operating mode	Pulse Echo
Typical Measuring Range	5 - 100 mm (0.196 - 3.9") on smooth parallel surfaces. Minimum measurable thickness depends on internal wall damage mechanism.
Measurement area	200 mm x 12 mm (7.87 x 0.47")
Couplant	Acoustic Tape
Mounting	Permanent fixing by acoustic tape and epoxy putty
Cabling	1.5 m (4.9 ft) with Lemo or BNC connector Extension cable up to a maximum of 70 m (230 ft)
Housing	Stainless Steel 316L
Ingress rating	IP56 equivalent
Dimensions	Main housing: 83 x 70 x 35 mm (3.27 x 2.76 x 1.38") Flexible strip: 244 x 55 mm (9.61 x 2.17")
Weight	0.50 kg (1.1 lb)
Certification	ATEX Zone 2
Temperature range	-40°C to 120°C (-40°F to 248°F)

Rightrax LT System		
Thickness repeatability	± 0.1 mm (0.0039")	The repeatability of the thickness reading through the complete system is the smallest change that can be reliably detected.
Thickness accuracy		Accuracy depends on knowing the substrate material sound velocity. Calibration standards or material specifications of the material are required for accurate results. This accuracy applies for uniform surfaces. Highly localized pitting may not be detected.
Thickness resolution - single reading	± 0.01 mm (0.00039")	
Total number of sensors per attached data logger	10	
Total number of data loggers per line driver	2	Each driven by a 10-way multi-core cable with a maximum length of 260 m (853 ft)
Maximum total number of sensor extension cable per system	450 m (1476 ft)	An individual sensor can have up to 70 meters of extension cable, but the total length of extension cable for the whole system cannot exceed 450 m (1476 ft).

