

Rightrax HT Specifications

Online Corrosion Monitoring System

HT350x Sensor	
Nominal frequency	5.0 Mhz
Nominal bandwidth	100%
Operating mode	Pulse echo
Typical measuring range	3- 16 mm (0.120 - 0.63") in mild steel Measuring range is affected by material properties, coupling and other factors
Contact diameter	7 - 21 mm (0.820") depending on contact surface radius
Couplant	Metal foil
Coupling pressure	Varies depending on test surface dimensions and finish
Mounting	Adaptable clamping system
Cabling	CMX configuration - 5 m (16.4 ft) length cable to open leads (no connector) Stand alone configuration - 5 m (16.4 ft) length coax cable
Delay length	17.7 mm (0.7")
Delay material	304 Stainless steel

CMX-HT Sensor Node		
Probe system		Single element 5Mhz probe with stainless steel delay line. The probe is clamped onto the pipe and coupled to the surface with a gold foil.
System thickness resolution	± 0.0025 mm (0.0001")	The resolution of the thickness reading through the complete system is the smallest change that can be reliably detected. This is influenced by short-term temperature fluctuations. These variations will result in changes in the temperature profile across the pipe wall.
Temperature Range	-20 to +350°C (-4° up to 662°F)	Skin surface temperature of test surface.
Thickness resolution single reading	± 0.01 mm (0.0004")	With temperature variations at rates less than 1°C (2°F) per minute over a 5°C (10°F) range, the resolution is improved to the value obtained using regression analysis.
Thickness resolution with regression	± 0.0025 mm (0.0001")	Reading errors due to short-term fluctuations are removed after taking a series of readings over time and performing a regression analysis.

