## **RADIODETECTION**<sup>®</sup>



# Time Domain Reflectometer and Cable Analyzer

**Technical specification** 



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## 1205CXB Technical specifications

#### 1. Product Summary

Product descriptions	Cable analyzer
	Time Domain Reflectometer, TDR
	Cable Radar
Intended use	Cable Avoidance Tool

#### 2. Electrical characteristics

Pulse widths	3, 6, 12, 25, 50, 100, 200 and 500ns					
	1, 2, 5 and 10µs					
Accuracy	0.1% of reading ± 4" / 0.1m					
Resolution	± 1" / 2.5cm					
VoP range	10.0 to 99.9 %					
Measurements displayed	Distance in feet or meters Time in μs					
Fault severity assessment	Auto calculation of Return Loss, dBRL, at Cursor 1 and Cursor 2 in dB					
Filtering	1x to 16x averaging for signal interference filtering					
Maximum range **	99,000ft / 30,000m at 99.9% VOP 65,600ft / 20,000m at 66.0%VOP					
Effective sampling rate	1 Gs/s					
Lithium lon battery	Capacity: 15.6Ah Maximum charging current*: 2000mA via USB-A port Run time: 6hrs typical Charge time: 6hrs typical Auto power off: 0.5, 1.0, 1.5, 2.0, 2.5 or 3.0hrs or off					
Connections	BNC for signal output and input USB-A for charging and waveform storage to USB stick					
Input Protection	500V (AC + DC) from DC to 400 Hz, decreasing to 10V at 1MHz					
Waveform storage capacity	On-board Flash (permanent) memory: 500 waveforms USB stick: unlimited (to multiple USB sticks)					
Waveform storage	Images files (*.bmp) for screen captures Data files (*.btr) for viewing with WaveView <sup>™</sup> PC software					

\* WARNING – do not exceed the maximum allowable charging current

\*\* Range varies with VOP. Maximum testable cable lengths vary with pulse width and cable type

#### 3. Environmental

Ingress Protection rating	Lid open: IP54 Lid closed: IP68
Operating temperature	+32 to +122 °F 0 to +50 °C
Storage temperature	-4 to +140 °F -20 to +60 °C
Humidity	95% maximum relative humidity, non-condensing

#### 4. Physical characteristics

Display	7" color display, 800x480 pixel Backlighting brightness adjustable from 5% to 100%
Unit external dimensions	11.8 × 9.8 × 4.7" 300 × 249 × 119 mm
Weight	6.6lb 3.0kg

#### 5. Accessories

Accessories included as standard	BNC-to-BNC connection cable
	BNC-to-Alligator clip connection cable
	BNC-to-F-type adapter
	Multi-regional USB-A charger
	USBA-USBA cable
	Nylon carry bag

#### 6 Certification and compliance

Product	Standards	EU (CE mark)	GB/NI (UKCA mark)	USA (FCC)	Canada (IC)
10/1205CXB TDR	EN 61326-1:2013	Electromagnetic compatibility (EMC) Directive (2014/30/EU)	Electromagnetic Compatibility Regulations 2016		
	EN 55011:2009/A1:2020				
	EN 61000-3-2:2014				
	EN 61000-3-3:2013	(2014/30/20)			
	EN 55081:2012	Restriction of the use of certain hazardous substances (RoHS) Directive (2011/65/EU)	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012		
	IEC /EN 62321-3-1:2013				
	ANSI C63.4-2014			FCC Part 15b Class A	CAN ICES-003(A) NMB-003(A)
26/PSK11-USB Charger	EN 55022	Electromagnetic compatibility (EMC) Directive (2014/30/EU)	Electromagnetic Compatibility Regulations 2016		
	IEC/EN 623368-1:2014	Low voltage	Electrical Equipment (Safety) Regulations 2016		
	IEC/EN 60950-1	(LV) Directive (2014/35/EU)			



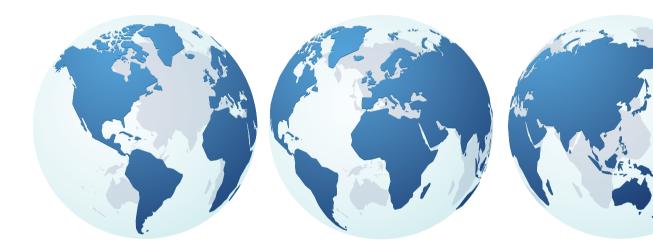
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