RADIODETECTION®

1205CXB™

Time Domain Reflectometer and Cable Analyzer

Technical specification





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 Ion 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™ PC software				

^{*} WARNING – do not exceed the maximum allowable charging current

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

^{**} Range varies with VOP. Maximum testable cable lengths vary with pulse width and cable type

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 Regulations 2016		
	EN 55011:2009/A1:2020	Electromagnetic compatibility (EMC) Directive (2014/30/EU)			
	EN 61000-3-2:2014				
	EN 61000-3-3:2013				
	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)			



RADIODETECTION®



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Provide best in class equipment and solutions, to prevent damage to critical infrastructure, manage assets and protect lives.

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To be the world's leader in the management of critical infrastructure and utilities.

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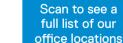
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