

RADIODETECTION®

1205CXB™

Time Domain Reflectometer
and Cable Analyzer

Technical specification



SPX®

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 \pm 4" / 0.1m
Resolution	\pm 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

** 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 x 9.8 x 4.7" 300 x 249 x 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
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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				
	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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