

**REMOTE POINT (RPX) PROBE ASSEMBLY
ISA DATA SHEET**



General	1	Manufacturer	Boreal Laser Inc.
	2	Analyzer Model No.	Not Specified
	3	Measurement Head Model No.	Remote Point (RPX) Probe Assembly (e.g. BL-__-RPX)
	4	Warranty Period	3 years Full Warranty
Cabling Options	5	Cabling Type	Single Mode Fibre Optic (FC/APC) and Shielded CAT6/5e Cabling (RJ45)
	6	Allowable Cable Lengths	5 - 300 m (15 - 1,000 ft) available in 10m (30 ft) Increments (See Target Gas Requirements)
	7	Fiber Optic Cabling Specification	SMF-28 Family of Fibres (SFM-28e, SFM-28e+, SFM-28 Ultra)
	8	Fiber Optic Connector Specification	Threaded Fiber Connector / Angled Polished Connector (FC/APC) - Green Boot
	9	CAT6/5e Cabling Specification	CAT6 (625MHz), 4-Bonded Pair, F/UTP-Foil Shield, 23 AWG Solid Bare Conductors
	10	CAT6/5e Connector Specification	RJ45 (T-568A) Shielded Connector
	11	5-20 m (15-60 ft) Cable Lengths	3/4" Flexible Conduit with 3/4" Connectors
	12	30-300m (90-1,000ft) of Cable - Option #1	Standard PVC Jacketing to be ran in User supplied Conduit or Cable Tray
	13	30-300m (90-,1000ft) of Cable - Option #2	Armoured (Aluminium) and PVC Jacketed - 17.3mm (0.680") Fiber & 13mm (0.511") CAT6
	15	Measurement Head Junction Box Material	Poly Vinyl Chloride (PVC) with Removeable Front Cover
	16	Measurement Head Junction Box Size	175 x 175 mm (6.9 x 6.9 inches) with four (4) 7.11 (0.280") Thru Holes for Mounting
	17	Measurement Head Junction Box Fittings	Free Floating Bulkhead Connectors for Fiber Optic (FC/APC) and CAT6/5e (RJ45)
	Remote Point (RPX) Probe	18	Optical Configuration
19		Assembly Composition	Remote Point (RPX) Probe and Mounting Clamps
20		Assembly Weight	5.9 kg (13 lbs)
21		Assembly Dimension (LxWxH)	753.2 x 147 x 109 mm (29.6 x 5.8 x 4.3 inches)
22		Physical Configuration	Remote from Analyzer (GasFinder3-MC) via Fibre Optic and CAT6/5e Cabling)
23		Mounting Hardware Configuration	Four (4) 15.87mm (5/8") Through Holes
24		Maximum Distance to Analyzer	Up to 300m of Single Mode Fibre and Shielded CAT6/5e Cabling (10m Increments)
25		Enclosure Material	6061 Anodized Aluminium
26		Area Classification	(A)Ex ib IIC T5 Tamb <70°C Gb (Equivalent to Class 1 Div/Zone 1 and Groups A,B,C,D)
27		Method of Protection	Intrinsic Safety "ib" & "Gb" as per IEC 60079-11
28		Temperature (RPX Probe Enclosure)	-45 to 70°C (-49 to 158°F)
29		Temperature (Laser Beam)	-45°C to +150°C (-49 to +300°F) Active Measurement Path / Process
30		Beam Divergence	16mm (5/8") @ 0.5m (1.6ft) = (32 milliradian x path length (m) = laser dot size (mm))
31		Retro Enclosure Window Material	None
32		Retro Array	Grey Tape
33		Power	Non-powered (Passive)
34		Cable Entry Size	3/4" (M20) for Fibre and CAT6/5e Cabling
35		Cable Gland	Included as part of Measurement Head Assembly
36		Cable Connections	Single Mode Fibre (FC/APC) and CAT6/5e (RJ-45) - Included in Assembly
37		Dual Gas Configuration #1	Any two gases except O2, CO2L, COL, CO2UL can share a Remote Point (RPX) Probe
38		Dual Gas Configuration #2	CO2L, COL, CO2UL can share an Remote Point (RPX) Probe
39		Dual Gas Configuration #3	O2 always requires a dedicated Remote Point (RPX) Probe
40		RPX Probe Heater	N/A
41		Retro Enclosure Thermostat	N/A
42		Heater/Thermostat Classification	N/A
43		Retro Enclosure Cable Glands	N/A
44		Retro Heater Termination	N/A
Recommended Accessories	45	Alignment Kit	BL-OAK-MC
	46	In-Line Response Cell	BL-ILRC-___ (HF, HCN, NH3, or CH4)
	47	Commissioning and Spares Assembly	BL-CASA
	48	Calibration Certificate Extension	BL-QDRP
	49	120-220 VAC Power Supply	BL-HAPS or BL-HAPS-S
Latest Revision	50	2/03/21	