

**INSERTABLE (IPX) PROBE  
ISA DATA SHEET**



<b>General</b>	1	Manufacturer	Boreal Laser Inc.
	2	Analyzer Model No.	Not Specified.
	3	Measurement Head Model No.	Insertable (IPX) Probe Assembly (e.g. BL-__-IPX-__)
	4	Warranty Period	10 years on Laser (Light Source) and 3 years Full Warranty
<b>Insertable (IPX) Probe</b>	5	Optical Configuration	Transceiver and Retro-Reflector (Mono-Static)
	6	Assembly Composition	Insertable Probe, 3" 150# ANSI flange, Length 0.25-1.0m
	7	Assembly Weight	15 kg (33 lbs)
	8	Assembly Dimension (LxWxH)	520-1270 x 229 x 140 mm (20 - 50 x 7 x 7 inches)
	9	Insertable Probe Dimension (LxWxH)	325-1075 x 95 x 95 mm (12.8 - 42 x 3.75 x 3.75 inches)
	10	Physical Configuration	Remote from Analyzer (GasFinder3-MC) via Fibre Optic and CAT6/5e Cabling
	11	Mounting Hardware Configuration	ANSI 3" 150# Flange Mounting Hardware Included
	12	Maximum Distance to Analyzer	Up to 300m of Single Mode Fibre and Shielded CAT6/5e Cabling (10m Increments)
	13	Enclosure Material	316 SS Stainless Steel
	14	Area Classification	(A)Ex ib IIC T5 Tamb <70°C Gb (Equivalent to Class 1 Div/Zone 1 and Groups A,B,C,D)
	15	Method of Protection	Intrinsic Safety "ib" & "Gb" as per IEC 60079-11
	16	Temperature	-55 to +120°C (-67 to 248°F)
	17	Temperature (Laser Beam)	-55°C to +120°C (-67 to +248°F) Active Measurement Path / Process
	18	Pressure - Insertable (IPX) Probe	50 to 200 kPa Absolute (7.25 to 29 psia)
	19	Process Pressure (Laser Beam)	50 to 200 kPa Absolute (7.25 to 29 psia)
	20	Beam Divergence	32mm (1 1/4") @ 1m (3.3ft) = (32 milliradian x path length (m) = laser dot size (mm))
	21	Window Material	Sapphire
	22	Power	Non-powered (Passive)
	23	Cable Entry Size	3/4" (M20) for Fibre and CAT6/5e Cabling
	24	Cable Gland	Included as part of Measurement Head Assembly
	25	Cable Connections	Single Mode Fibre (FC/APC) and CAT6/5e (RJ-45) - Included in Assembly
	26	Dual Gas Configuration #1	Any two gases except O2, CO2L, COL, CO2UL can share an Insertable (IPX) Probe
	27	Dual Gas Configuration #2	CO2L, COL, CO2UL can share Insertable (IPX) Probe
	28	Dual Gas Configuration #3	O2 always requires a dedicated Insertable (IPX) Probe
	29	Retro Enclosure Material	316 SS Stainless Steel, PTFE Teflon
	30	Retro Enclosure Window Material	Sapphire, Teflon, No Window
	31	Retro-Reflector Temperature	-55°C to +120°C (-67°F to 248°F) with IMOS Retro Reflector
32	Retro Enclosure Cable Entry	None	
33	Retro Enclosure Cable Glands	N/A	
34	Retro Array (IMOS or Grey Tape)	50.8 mm (2") IMOS Retro Reflector	
35	Path Length Ranges (Retro-Arrays)	0.25-1m Probe	
<b>Recommended Accessories</b>	36	Alignment Kit	BL-OAK-MC
	37	In-Line Response Cell	BL-ILRC-___ (HF, HCN, NH3, or CH4)
	38	Commissioning and Spares Assembly	BL-CASA
	39	Calibration Certificate Extension	BL-QDRP
<b>Latest Revision</b>	40	120-220 VAC Power Supply	BL-HAPS or BL-HAPS-S
	41	1/09/21	