

PHD6[™] SPECIFICATIONS

Six-Gas Detector



Housing							
Material	Polycarbonate with tough rubber overmold						
Weight (Alkaline)	1.1 lbs/17.6 oz/499 g (5 sensors)						
Weight (Alkaline) + Pump	1.4 lbs/22.4 oz/635 g (5 sensors)						
Weight (Lithium-Ion)	1.0 lbs/16 oz/454 g (5 sensors)						
Weight (Lithium-Ion) + Pump	1.3 lbs/20.8 oz/590 g (5 sensors)						
Dimensions w/o std belt clip	6.63 x 3.13 x 2 in./16.83 x 7.94 x 5.08 cm						
Dimensions with std belt clip	6.63 x 3.13 x 2.5 in./16.83 x 7.94 x 6.35 cm						
Dimensions w/o std belt clip, with pump	8.5 x 3.13 x 2.38 in./21.59 x 7.94 x 6.03 cm						
Dimensions with std belt clip and pump Power	8.5 x 3.13 x 2.63 in./21.59 x 7.94 x 6.66 cm						
Type Environmental Ratings	Rechargeable Lithium Ion or Alkaline (3 x AA size) battery pack options						
Dust & Water Resistance Rating	IP65						
Drop Testing	Dropped 100+ times from 1 meter to concrete floor						
RF Immunity	Conforms to EN 50270						
RF Emissions	Conforms to IEC 61000-6-4						
ESD Immunity	Conforms to IEC 61000-4-2						
Charger (all models) @ 68°F (20°C)	6 hrs max.						
Certifications (All certifications include pump,	charger and IQ docks (with approved chgr bds)						
	SGS/USTC Class I, Division 1, Groups A,B,C,D Temp Code T3C						
	SGS/USTC Class II, Division 1, Groups E,F,G, Class III						
	CSA Class I, Division 1, Groups A,B,C,D Temp Code T3C (CSA approval does not include IR sensor)						
	ATEX (EPS) Ex ia d IIC 170C (T3)						
	IECEx Ex ia d IIC 170C (T3)						
	CE Mark						
Capabilities							
Controls	3 buttons						
Sensor Channels	Maximum of 6						
Gas Types							
Available Sensors	0 ₂ , LEL, PID, Duo-Tox, CO, H ₂ S, CO-H, SO ₂ , Cl ₂ , NO, NO ₂ , NH ₃ , PH ₃ , HCN, IR-CO ₂ , IR-CH ₄						
User adjustable alarms	Oxygen: Danger Low/Danger High; Combustible: Warning/Danger; PID and Toxic: TWA/STEL/Warning/Danger						
Calibration	Fresh air and gas calibration with one button						
Calibration dates	Most recent for full instrument calibration and for each sensor						
Motorized pump	Optional external pump, standard length 10 ft. (3 m), maximum length 100 ft. (30 m)						
Security Beep	User adjustable interval from 5 seconds to 60 minutes						
Latching Peak Alarms	User enabled						
Datalogging	Blackbox datalogger that can be upgraded to a full datalogger at any time. Activation code and BioTrak PC software required. Fu datalogger has user adjustable interval from 1 second to 60 minutes.						
Datalogging capacity	See table						
Computer Interface	IrDA						
Event Logger	20 events including max, min, and average for all sensors, time and duration						
Alarms							
Visual	Bright red LED alarm visible from top and sides						
Audible	Dual Piezoelectric audible alarm, 92 dbA @ 1 foot (30.5 cm) PhD6 Alarm Loudness Test						
Vibrating	Optional						

Sensors	•	15.	ID 011 (0/)	ID 00 (0/)	DID (DDIA)	00		Due Tour OC	D T !! 0
D	0,000 %	LEL	IR CH ₄ (%)	IR CO ₂ (%)	PID (PPM)	CO	H ₂ S	Duo-Tox CO	Duo-Tox H ₂ S
Ranges	0-30 % by vol.		0-5.00%	0-5.00%	0-2000 PPM	0-999 PPM	0-200 PPM	0-999 PPM	0-200 PPM
Resolution	0.1%	1% LEL	0.05% CH ₄	250 PPM	0.1 PPM	1 PPM	1 PPM	1 PPM	1 PPM
Warning Low alarm	19.5%*	10%	0.5	0.5	50	35	10	35	10
Danger High alarm	23.5%	20%	1.0	3.0	100	100	20	100	20
STEL alarm	N/A	N/A	N/A	N/A	25	100	15	100	15
ΓWA alarm	N/A	N/A	N/A	N/A	10	35	1**	35	10
90	<15 sec	<20 sec (methane)	<30 sec	<30 sec	<10 sec (isobut)	<20 sec	<20 sec	<20 sec	<20 sec
	СО-Н	SO ₂	Cl ₂	NO ₂	NO	NH ₃	PH ₃	HCN	
Ranges	0-999	0-25	0-50	0-100	0-250	0-100	0-20	0-100	
Resolution	1 PPM	0.1 PPM	0.1 PPM	0.1 PPM	1 PPM	1 PPM	0.1 PPM	0.2 PPM	
Warning Low alarm	35	2	0.3	0.5	12.5	12.5	0.3	2.4	
Danger High alarm	100	5	0.5	1	25	25	1	4.7	
STEL alarm	100	5	1	1	25	35	1	4.7	
WA alarm	35	2	0.5	1	25	25	0.3	4.7	
90	<20 sec								
Danger Low Alarm for O ₂	**Compatible with	single sensor channel co	nfiguration only						
Battery Life									
Alkaline @ 70°F/22°	C	17 hrs							
i-ion @ 70°F/22°C		22 hrs							
Alkaline (with PID 8	LEL) @ 70°F/2	22°C 13 hrs							
Li-ion (with PID & LEL) @ 70°F/22°C 15½		rs.							
Pump added to abo	ve	subtra	ct 4 to 6 hrs.						
Shelf Life									
Alkaline		60 day	'S						
_i-ion		60 day	'S						
Datalogger Capacity	1								
		Maxim	um Sessions = 60)					
		1 sens	or = 15,296 data	points = 254 hr 5	56 min @ 1 Minute	intervals			
		2 sens	ors = 7,648 datap	ooints = 127 hr 2	28 min @ 1 Minute	intervals			
		3 sens	ors = 7,648 datap	ooints = 127 hr 2	28 min @ 1 Minute	intervals			
		4 to 6	sensors = 3,824	datapoints = 63 l	nr 44min @ 1 Minu	ute intervals			
nstrument									
Pump Tubing length			et PhD6 Extende						
Display		Front r	Front mounted graphic LCD, 1.4 in. x 1.4 in., simultaneously displays readings for all gases being monitored						
Display Backlight			Bright white LED backlight. User adjustable to be always on, on in dark environment, or activated by Mode button for an interval adjustable from 5 seconds to 60 minutes.						
		Operat	ing: 0 to 110°F/-1	8 to 43°C, Interm	nittent: -20 to 120°	F/-29 to 49°C			
lemperature range									
Temperature range Temperature range	(Certification)	-20 to	+50°C						
	(Certification)		+50°C 5% RH, non-conde	ensing (0-95% <	= 4 hours)				



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