

## PHD6<sup>™</sup> 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-lon)	1.0 lbs/16 oz/454 g (5 sensors)						
Weight (Lithium-lon) + 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	8.5 x 3.13 x 2.63 in./21.59 x 7.94 x 6.66 cm						
Power							
Туре	Rechargeable Lithium Ion or Alkaline (3 x AA size) battery pack options						
Environmental Ratings	3 ( ) ) 1						
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.						
	, 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	OL Walk						
Controls	3 buttons						
Sensor Channels	Maximum of 6						
	WIGAIITUTT OF O						
Gas Types	A LET DID D. T. CO. H.O. CO. H.O. CI. NO. NO. NIL DIL HONLID CO. ID CIL						
Available Sensors	O <sub>2</sub> , LEL, PID, Duo-Tox, CO, H <sub>2</sub> S, CO-H, SO <sub>2</sub> , Cl <sub>2</sub> , NO, NO <sub>2</sub> , NH <sub>3</sub> , PH <sub>3</sub> , HCN, IR-CO <sub>2</sub> , IR-CH <sub>4</sub>						
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. 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							
Alarms Visual	Bright red LED alarm visible from top and sides						
	Bright red LED alarm visible from top and sides  Dual Piezoelectric audible alarm, 92 dbA @ 1 foot (30.5 cm) PhD6 Alarm Loudness Test						

Sensors									
	02	LEL	IR CH <sub>4</sub> (%)	IR CO <sub>2</sub> (%)	PID (PPM)	CO	H <sub>2</sub> S	Duo-Tox CO	Duo-Tox H <sub>2</sub> S
Ranges	0-30 % by vol.	0-99 %	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 <sub>4</sub>	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
TWA alarm	N/A	N/A	N/A	N/A	10	35	10	35	10
T <sub>90</sub> <15 se	<15 sec	<20 sec (methane	<30 sec	<30 sec	<10 sec (isobut)	<20 sec	<20 sec	<20 sec	<20 sec
	СО-Н	SO <sub>2</sub>	Cl <sub>2</sub>	NO <sub>2</sub>	NO	NH <sub>3</sub>	PH <sub>3</sub>	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	
ΓWA alarm	35	2	0.5	1	25	25	0.3	4.7	
T <sub>90</sub>	<20 sec								
Danger Low Alarm for O <sub>2</sub>									
Battery Life									
Alkaline @ 70°F/22°	C	17 hi	rs.						
i-ion @ 70°F/22°C		22 hi	rs.						
Alkaline (with PID &	LEL) @ 70°F/2	22°C 13 hi	S.						
i-ion (with PID & Li	L) @ 70°F/22°	PC 15½	hrs.						
Pump added to abov	<i>i</i> e	subtr	act 4 to 6 hrs.						
Shelf Life									
Alkaline		60 da	ays						
Li-ion		60 da	ays						
Datalogger Capacity	1								
		Maxi	mum Sessions = 60	)					
		1 ser	nsor = 15,296 data	points = 254 hr (	56 min @ 1 Minute	e intervals			
		2 ser	nsors = 7,648 data	points = 127 hr 2	28 min @ 1 Minute	intervals			
		3 ser	nsors = 7,648 data	points = 127 hr 2	28 min @ 1 Minute	intervals			
		4 to (	3 sensors = 3,824	datapoints = 63	hr 44min @ 1 Minu	ute intervals			
nstrument									
Pump Tubing length			feet PhD6 Extende						
Display		Front	mounted graphic L	.CD, 1.4 in. x 1.4	in., simultaneously	displays readir	ngs for all gases b	eing 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.						
Temperature range		Oper	ating: 0 to 110°F/-1	8 to 43°C, Interm	nittent: -20 to 120°	F/-29 to 49°C			
Temperature range (	(Certification)	-20 t	o +50°C						
Humidity Range		15 -	95% RH, non-cond	ensing (0-95% <	= 4 hours)				
Pump Flow Rate		1 1 10	M nominal						

Toll-free: 800.711.6776

