

Technical data

	RespiDigit TM	RespiDigit 2 TM
Principle of operation	Simultaneous collection of airborne particles in three size fractions according to EN 481 (inhalable, thoracic, respirable). Scattered-light photometers in each of the three stages for time-resolved online measurements.	
Collected dust fractions	Inhalable: < 100 µm Thoracic: < 10 µm Respirable: < 4 µm (< 2,5 µm with optional inlet head)	
Separation principle	Two-stage virtual impaction	
Measurement range [mg/m³] (DEHS particles, d = 1 µm)	0 – 200	0 – 10
Sensitivity [mV/mg/m³]	20	300
Detection limit [µg/m³] (DEHS particles, d = 1 µm)	approx. 50	approx. 30
Filter modules	Filter cassettes for glass-fiber or membrane filters (37 mm diameter)	
Mounting thread	Whitworth thread W ¼" in bottom stage	
Dimensions [mm]	H x D: 110 x 60	
Standards	EN 481, ISO7708, ACGIH, AIHA, MAK, TRGS, test report acc. to prEN 13205 for Respicon TM	
Sampling pump		
Volume flow [l/min]	3,11	6,22
Pressure drop	4 kPa	
Operation time [h] (as specified by manufacturer)	ca. 8 h - unlimited with power supply (DALO) or power module (sampling pump)	
Data logger		
Channels	4, 1 available for additional sensors	
Interfaces	USB, Bluetooth	
Measurement interval [s]	1 – 3.600, adjustable in 1-s steps	
Storage capacity	approx. 6 full days of measurement (@ 1 s measurement interval), max. 9 full measurement days (longer measurement intervals)	
Operation modes	Respicon TM/data logger	
Battery mode	Li-ion battery, charging time approx. 6 h	
Power supply	USB power supply and charger	
Operation time [h]	approx. 8	
Display	3.2" touchscreen, resistive	
Accessories	<ul style="list-style-type: none"> • evaluation software • DALO carrying case • transport case 	
Dimensions [mm]	L x W x H: 185 x 100 x 40	
Technical data subject to modifications		

V062018



RespiDigit TM/RespiDigit 2 TM

Dust monitor with photometric measurement
of dust fractions according to TRGS 900