PARTICULATE CONCENTRATION SENSOR

PM1, PM2.5 and PM10

- Simultaneous determination of PM1, PM2.5 and PM10
- Monitoring of fine dust in
  - production areas (workshops, factories, etc.)
  - indoor air quality monitoring in offices
  - outdoor air monitoring
  - Integration into the meteorological station
- Wide operating ambient conditions: -20...60 °C, 0...99% RH
- Output RS485 Modbus-RTU

The fine dust sensor is an optical sensor for the continuous measurement and monitoring of the concentration of three particle sizes: PM1, PM2.5 and PM10 simultaneously. The determination of particulate concentration is based on the light scatter measurement method.

Technical specifications

PN	PRPMA3100	
Output	RS485	
Protocol	Modbus RTU	
Sampling frequency	From 5 min to 24 h	
Particular matter	Measuring method	Light scattering measurement
	Measurement range	0...1000µg/m³
	Sensitivity	PM1&2.5: 0...100 µg/m^3: ±5µm+5%; 100...1000 µg/m^3: ±10 % PM10: 0...100 µg/m^3: ±25µm, 100...1000 µg/m^3: ±25 %
General information	Enclosure	Polycarbonate and polyamide
	Power supply	5...35 V DC
	Weight	0.4 kg
	Dimensions	81 x 45 x 148 mm
	Protection grade	IP65
	Operative limits	-20...60°C; 0...99% RH%
	Compatibility	Alpha-Log

Accessories

	CCFFA3300	Cable L= 5 m
	CCFFA3400	Cable L= 10 m
	CCFFA3500	Cable L= 25 m

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