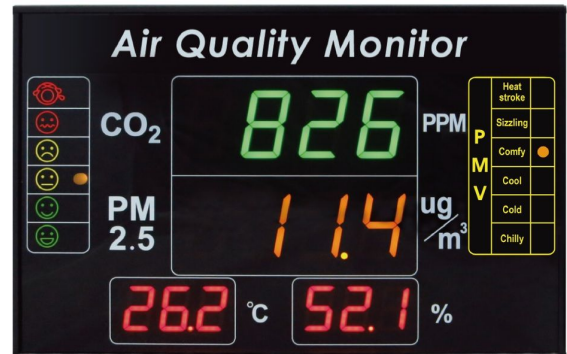


DMB05

4 in 1 Luftqualität-Anzeige [4 in 1 air quality monitor]

- Feinstaub, Kohlenstoffdioxid, Feuchte, Temperatur
[particulate matter, carbone dioxide, humidity, temperature]
- PM2.5, CO₂, %rF [rH], °C
- RS485 Modbus RTU Schnittstelle
[RS485 Modbus RTU interface]
- LED Anzeige
[high brightness LED]
- OEM Ausführung auf Anfrage
[OEM version on request]
- Nur in Verbindung mit DMTGP03
[use together with DMTGP03]
- Marke: eYc
[brand: eYc]



Spezifikationen [specifications]

Anzeige [display]	Temperatur [temperature]: 3,8 cm in rot [red] Feuchte [humidity]: 3,8 cm in rot [red] PM2.5: 5,8 cm in gelb [yellow] CO ₂ : 5,8 cm in grün [green]
Messbereiche [ranges]	Temperatur [temperature]: 0 – 50°C Feuchte [humidity]: 0 – 100 %rF [rH] PM2.5: 0 – 500 µg/m ³ CO ₂ : 0 – 2000 ppm
Genauigkeiten [Accuracies]	Temperatur [temperature]: ±0,4°C Feuchte [humidity]: ±3%rF [rH] (20-90%rF[rH]) PM2.5: ±10µg/m ³ ±5%v.M. [of reading] CO ₂ : ±40ppm ±3%v.M. [of reading]
Abmessungen [dimensions]	460 x 295 x 60 mm (LxHxD)
Schnittstelle [interface]	RS485 Modbus RTU
Relais [relays]	24 VDC 100 – 240 VAC









DMB05

RS-485



Monitor & Record

CO₂ Anzeige [CO₂ indication]

Emoticon						
CO ₂ (PPM)	350 PPM	450 PPM	600 PPM	1000 PPM	2500 PPM	5000 PPM
Health Implication	Health, normal outside level	Acceptable level	Contaminated air	Drowsiness occurs	Adverse health effects	Time weighted averaging exposure time < 8 hours

PM2.5 Anzeige & Berechnung [PM2.5 indication & calculation]

Range	10 or less	11~15	16~19	20~26	27~31	above 31
Feeling	Chilly	Cold	Cool	Comfy	Sizzling	Heat stroke

Formula : T_m : °C ; t_b : dp °C ; When air reaches temperature saturation : more water vapor → dew point will be higher

$$PMV \text{ index} = T_m - 0.55 \times 1 - \left[\frac{\exp \left[\frac{17.269 \times t_b}{t_b + 273} \right]}{\exp \left[\frac{17.269 \times T_m}{T_m + 273} \right]} \right] \times (T_m - 14)$$