

DOL 139 3-in-1 Sensor

We would like to introduce you to our newest innovation - a unique sensor that measures humidity, temperature and CO₂ at the same time.



CLIMATE



DOL 139

Humidity, temperature and CO₂

DOL 139 will replace your three other climate sensors and limit the need for maintenance. Its incredible accuracy allows measuring even 10000 ppm in one sensor. Thorough testing and improvements allowed us to create a sensor that is extraordinarily sturdy and durable.



Specification		Parameter	Unit
Output	Voltage range	0 - 10	VDC
	Limited output power per port	20	ma
	Output impedance	<1	Ω
	Recommended load impedance	>100	kΩ
	Max. Cable length @ 0.75 mm2	100	m
	Max. cable length @ 1.50 mm2	200	m
	Load impedance	0.5 – 10000	kΩ
Relative humidity	Measurement range	0-100	%RH
	Output resolution	0.1	V/%RH
	Accuracy +10°C - +40°C (40-80% RH)	+/-3	%RH
	Accuracy 10%RH – 95%RH	+/-3 + 0.02 x mv	%RH
	Time constant: T63	4 min. at 0.5 m/s air speed	
Temperature	Measurement range	-40 - +60	°C
	Output resolution	0.1	V/ °C
	Accuracy +10°C - +40°C	+/-0.75	°C
	Accuracy 0°C - +60°C	+/-1.5	°C
	Time constant T63	7 min. at 0.5 m/s air speed	
CO ₂	Measurement range	0-10000	ppm
	Output resolution	0.001	V/ppm
	Accuracy 400 - 10000	50 ppm + 5% of measured value	ppm
	Time constant T63	2 min. at 0.5 m/s airspeed	s
Supply voltage		13.5 - 30	VDC
Supply current	No load	9	mA
	Max. load	105	mA
Temperature, operation		0 - +60	°C
Temperature, storage		-40 - +60	°C
IP classification		IP67 (DIN 40050-9)	
		NEMA 1, 3, 4, 6	
Cable length		2	m
Cable conductor size		5 x 0.34 (5 x AWG22)	mm ²
Dimensions (diameter/width)		33.3	mm
Dimensions (length)		128.3	mm
Weight (sensor and cable)		243	g
Approvals		CE	



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