

Temperature / Humidity and air quality sensors

Part-number	Temperature and Humidity						Temperature/Humidity - Wireless - rTM System					Air quality sensor			
	DPD*	DPP*	DPW*	ASIT*	ASET*	DPUC*	WS01*					DPWQ*	DPWQ*	DPDQ*	DPDQ*
															
Version	Duct	Technical environment	Ambient	Internal	External	Outdoors	Ambient	Technical environment	Outdoors (cabinets)	Internal	Ambient	Ambient	Duct	Duct	
Detected measure	Temperature and Humidity	Temperature and Humidity	Temperature and Humidity	Temperature	Temperature	Temperature and Humidity	Temperature and Humidity	Temperature Humidity and light	Temperature	Temperature	V.O.C. Volatil organic compundos	CO2 or CO2+VOC	V.O.C. Volatil organic compundos	CO2 or CO2+VOC	
Application	ducted heating and air-conditioning systems	industrial environments (cold rooms, pools etc.) where a high index of protection is required	heating and air-conditioning systems	Designed for general applications	Designed for general applications	For outdoors application	Heating and air-conditioning systems	Designed for general applications	Designed for cabinets	Cool room	Air quality in:Office, hotels, meeting room, apartment, restorants, stores	Air quality in:Office, hotels, meeting room, apartment, restorants, stores	Air quality in:Office, hotels, meeting room, apartment, restorants, stores	Air quality in:Office, hotels, meeting room, apartment, restorants, stores	
Power supply	8...32Vdc 12...24Vac	8...32Vdc 12...24Vac	8...32Vdc 12...24Vac	9...30Vdc 12...24Vac	9...30Vdc 12...24Vac	15...36Vdc 24Vac	Battery 3,6V size AA					24Vac/dc		24Vac/dc	
AC power consumption (VA)	0,8 VA	0,8VA	0,8VA	0,8VA	0,8VA	<1,1VA	-	-	-	-	1,7VA	2VA	1,7VA	2VA	
Output	4...20mA 0...10V RS485 Carel/Modbus	4...20mA 0...10V RS485 Carel/Modbus	4...20mA 0...10V RS485 Carel/Modbus	4...20mA 0...1V	4...20mA 0...1V	4...20mA	ZigBee protocol wireless connection (Carel encrypted) (IEEE 802.15.4 compliant)					4...20mA 0...10V	0...10V	4...20mA 0...10V	0...10V
Operating condition range	-10...60°C 10...90 rH% -20...70°C - 0...100 rH%	-10...60°C 10...90 rH% -20...70°C 0...100 rH%	-10...60°C 10...90RH%	-10...70°C	-10...70°C	-35...80°C 10...90 rH%	-10T60 °C <80%rH not cond.	-10T60 °C <80%rH not cond.	-40T50 °C <80%rH non cond.	0T50 °C <80%rH not cond.	0...50°C 10...90 rH% -20...70°C 0...100 rH%	0...50°C 10...90 rH% -20...70°C 0...100 rH%	0...50°C 10...90 rH% -20...70°C 0...100 rH%	0...50°C 10...90 rH% -20...70°C 0...100 rH%	
PPM working range	-	-	-	-	-	-	-	-	-	-	-	0...2000ppm	-	0...2000ppm	
Precision	±0,5°C - ±5% rH	±0,5°C - ±5% rH	±0,5°C - ±5% rH	±0,5°C	±0,5°C	±0,8°C - ±5% rH	±1°C 0T50 °C ±5 rH%	±1°C 0T50 °C ±5 rH% and lux	±1°C -30T40 °C	±0,5°C -40T40 ±1°C -50T90°C	-	± 30 ppm, ± 5 % of final value	-	± 30 ppm, ± 5 % of final value	
Index of protection	IP55 Case IP40 Sensor cap	IP55 Case IP40 Sensor cap	IP30	IP67	IP67	IP65	IP30	IP55 IP40 cap	IP65	IP55	IP30	IP30	IP65	IP65	
Documentation	+050001245 +050001295 + 030220660	+050001245 +050001295 + 030220660	+050001235 +050001240 +030220660	+050000493 +030221275	+050000493 +030221275	+050001790	+0500063ML +0500064ML +0500034ML +0500060ML +0300030* +0300030*					+050001290 +050001291 +050001292 +050001293 +050001294 +050001300 +050001301 +050001302 +050001303 +050001304			