

Air sensors - Product range

Part-number	Series DP-THC				Series DP-IAQ	
	DPWS*	DPUS*	DPDS*	DPRS*	DPWQ*	DPDQ*
						
Version	Indoor	Outdoor	Duct	Compact	Indoor	Duct
Display	With and without	Without	Without	Without	With and without	Without
Detect measure	Temperature, Humidity, CO2	Temperature, Humidity	Temperature, Humidity, CO2	Temperature, Humidity	Temperature, Humidity, CO2, VOC, PM10/PM2.5	Temperature, Humidity, CO2
Application	Heating and air-conditioning systems Residential	Cold rooms, white chamber, Heat pumps	Ducted heating and air-conditioning systems	CRAC, AHU	Heating and air-conditioning systems Residential	Ducted heating and air-conditioning systems
Power supply	12 to 24 Vac/dc 20 to 24Vdc for 0...10 V	12...24Vac/dc	12...24Vac/dc	12...24Vac/dc	24Vac/dc ±10%	24Vac/dc ±10%
Power consumption	5W – 4VA	5W – 4VA	5W – 4VA	0,5W Max	24Vdc Max 4,4 W - 24Vac Max 6,4VA	24Vdc Max. 4,8 W - 24Vac Max.6,5VA
Output	Only T → NTC T → NTC H → 0...10V-4...20mA T/H → 0...10V or 4...20mA T/H → RS485 Modbus	Only T → NTC T → NTC H → 0...10V-4...20mA T/H → 0...10V or 4...20mA T/H → RS485 Modbus	Only T → NTC T → NTC H → 0...10V-4...20mA T/H → 0...10V or 4...20mA T/H → RS485 Modbus	T → NTC H → 0,5...4,5V RS485 Modbus	T/H → RS485 Modbus	T/H → RS485 Modbus
Operating condition	T → -40...+70 °C T with CO2 → -20...50 °C CO2 è 400...2.000 ppm T with LCD → -10...50 °C H → 10...100% UR not condensing	T → -40...+70 °C H → 10...100% UR not condensing	T → -40...+70 °C T with CO2 → -20...50 °C CO2 è 400...2.000 ppm T with LCD → -10...50 °C H → 10...100% UR not condensing	T → -40...+70 °C H → 10...100% UR not condensing	T → 0...+50 °C H → 0...95% UR not condensing CO2 → 0...5.000 ppm VOC → 0...100% PM → 0-1000 ug/M-3	T → -20...+50 °C H → 0...95% UR not condensing CO2 → 0...5.000 ppm
Index of protection	IP20	IP65 – Enclosure IP40 - sensitive elements	IP55	IP40	IP30	IP65
Precision	Resistive NTC → ±0,3 °C@25°C; ±0,9 °C@-10T60 °C T → ±0,5 °C@25 °C; ±1 °C@-40T70 °C H → ±2% rH @25 °C; ±5% rH max CO2 → ±(30 ppm 3% of the measured)	Resistive NTC → ±0,3 °C@25°C; ±0,9 °C@-10T60 °C T → ±0,5 °C@25 °C; ±1 °C@-40T70 °C H → ±2% rH @25 °C; ±5% rH max CO2 → ±(30 ppm 3% of the measured)	Resistive NTC → ±0,3 °C@25°C; ±0,9 °C@-10T60 °C T → ±0,5 °C@25 °C; ±1 °C@-40T70 °C H → ±2% rH @25 °C; ±5% rH max CO2 → ±(30 ppm 3% of the measured))	Resistive NTC → ±0,6 °C@25°C; ±0,9 °C@-10T60 °C H → ±3% rH @25 °C; ±5% rH max	T → ±0,2 °C@25 °C; ±0,8 °C@0T50 °C H → ±2% rH @25 °C; ±5% rH max CO2 → ±(3% of the measured) VOC → ± 20% of the measurement PM → ± 10% of the measured value PM2.5 ± 25% of the measured value PM10	T → ±0,2 °C@25 °C; ±0,8 °C@0T50 °C H → ±2% rH @25 °C; ±5% rH max CO2 → ±(3% of the measured)
Documentation	Technical leaflet +050002940 Manual +030222230	Technical leaflet +050002942 Manual +030222230	Technical leaflet +050002942 Manual +030222230	Technical leaflet +050002945 Manual +030222230	Technical leaflet +050001796 Manual +030220660	Technical leaflet +050001796 Manual +030220660