

# TVOC 2 COMPETITOR COMPARISON



**ION Science  
TVOC 2 (DIFFUSED)**



**ION Science  
Falco & Falco<sup>TAC</sup> (DIFFUSED)**



PID sensor lamp	10.6 eV	Falco: 10.6 eV / Falco <sup>TAC</sup> : 10.0 eV
Detection range / Sensitivity	0 - 10 ppm / 0.01 ppm 0 - 100 ppm / 0.1 ppm 0 - 1000 ppm / 1.0 ppm	0 - 10 ppm / 0.001 ppm 0 - 50 ppm / 0.01 ppm 0 - 1000 ppm / 0.1 ppm 0 - 3000 ppm / 1 ppm
User interface / Controls	1 magnetic switch	5 magnetic switches
Mounting points	3 X M8	2 x M8
Quick access to PID detector	✓	✓
Humidity handling	Patented fence electrode technology	Patented fence electrode technology
LED Indicators	✓(4 colour LED's)	✓(LED confirmation)
Pump option	✓(Aftermarket accessory)	✓
Relay outputs	✗	✓(x2)
4 to 20 mA output	✓	✓
RS485 output (Modbus®)	✗	✓
Variable sample time	Fixed 1/second	1 second - 10 minutes (selectable)
Response time (T90)	<5 seconds	<30 seconds

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**TVOC 2 (Diffused)**



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Operating temperature	-20°C to 50°C	-40°C to 50°C
Response factors	Fixed	✓ User defined
Filters required	✗	✗
Dimensions	188 (h) x 126 (w) x 78 (d) mm	200 (h) x 190 (w) x 125 (d) mm
Weight	1.4kg	2.9kg
Power	5-28 VDC Max 130 mA	12-40 VDC Max power: 7 watts
Warranty	1 year standard (optional 2 year extension)	1 year standard (optional 2 year extension)
Display	5 digit LCD display for clear readings	OLED high contrast white on black
Accuracy	±5% at calibration point	±5% at calibration point
Ingress protection (IP rating)	IP54	IP65
Ex d housing	✗	✓
Intrinsically safe	✓	✓
Approvals	ATEX, IECEx	ATEX, IECEx, UL, CSA