

IN-SITU COMBUSTION OPTIMIZATION MONITOR

FOR HAZARDOUS AREA ZONE 2





- Extremely service friendly
 - Very competitively priced

Suitable for temperatures up to 1,800°F

O2 and COe measurement is possible

Low cost of ownership



Method

MAIN FEATURES

- >> hazardous area designation of use: Zone 2 equivalent to Class 1, Div 2, Gr C/D
- >> special IP65 pressurized cabinet and z-purge controller, complying to EX II 3G Ex pz II T3 Gc
- >> unique hot solid electrolyte sensor for combustible CO -measurement without the need for sample dilution with air as required for catalytic bead sensors (Pellistors)
- >> easy and fast, on site replaceable detector head with sensors (O2 & COe)
- >> unique blow-back system for dusty flue gases
- >> integrated auto-calibration for accurate measurements

Gas

- >> integrated control unit with backlit display, operating key pad, dual galvanic isolated 4...20 mA output and digital output RS 485 (Modbus RTU)
- >> stainless steel SS316Ti flange 4" ANSI-150 lbs with flow guidance probe tubes, from 11.81" to 78.81" (300 mm up to 2 m) length
- >> low energy consumption, no poisoning effects on sensors, stable in hot, wet and water saturated flue gases, dust tight and water proof enclosure, with optional ATEX heater for very low ambient air temperatures or ATEX Vortec cooler for high ambient temperatures

Range

TECHNICAL SPECIFICATIONS

Measured component	02	0 25%	0.2% abs.	zirconium dioxide	
	COe	0 1,000ppm	+/- 5% full scale	hot solid electrolyte	
Zero drift	< 0,2 % of range per month, negligible with auto-zero				
Span drift	< 0,2 % of range per month, negligible with auto-zero				
Linearity	< 1 % FS				
Warm up time	Minimum 30 minutes				
Response time	< 10 seconds				
Process conditions					
Temperature	up to 1,832°F (1,000 ° C)				
Pressure	361 inH2O to 441 inH2O (900 to 1.100 mbar)				
Flow velocity	min. 1 m/sec to max. 30 m/sec				
Probe connection	flange 4" ANSI-150 lbs., stainless steel 1.316Ti				
Probe tube length	11.81" to 78.81" (300 mm to 2,000 mm), Inconel steel				
Calibration	Manual or automatic (user free settable)				
	1 point (offset) or 2 points (offset and span)				
HMI Human Machine	Graphical, backlit display				
Interface		Keyboard and password protected operation			
Dual, analog output 420 mA, isolated, max. load 500R					
	RS 485 digital interface (Modbus RTU)				
F., classification	DIN-rail RS 485/Profibus converter				
Ex classification	Ex II 3G Ex pz II T3 Gc				
Cabinet	Glass fiber reinforced PE with grey, conductive painting 25.58" x 19.68" x 13.77" (650 x 500 x 350 mm) (H x W x D)				
Dimensions Weight / Brotostion	· · · · · · · · · · · · · · · · · · ·				
Weight / Protection	55lbs. (25 kg) / IP 65				
Ambient temperature 41°F 113°F (+5 °C +45 °C) (149°F (+65 °C) with ATEX Vortec cooler) -49°F 113°F (-45°C +45 °C) with cabinet heater				ec cooler)	
Operating requirements	-43 F 113 F (-	45 C 745 C/ WILII C	מטוווכו וופמופו		
Electric power supply	100240 Vac / 4763 Hz / 100 W or 300 W with cabinet heater				
Liectric power supply	100240 vac/ 4703112/ 100 vv of 300 vv with cabinet fleater				

87 ... 116 psi (6...8 bar), free of dust, oil and water (DP -4°F (-20°C) or less)

Accuracy

Data subject to change without notice



Compressed air