

## 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
<b>-</b>	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 Minimum 30 minutes			
Warm up time				
Response time Process conditions	< 10 seconds			
	un to 1 923°E /1	000 ° C)		
Temperature Pressure	up to 1,832°F (1,000 ° C) 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)			
	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			
Dimensions	25.58" x 19.68" x 13.77" (650 x 500 x 350 mm) (H x W x D)			
Weight / Protection	55lbs. (25 kg) / IP 65			
Ambient temperature	41°F 113°F (+	5 °C +45 °C) (149°F	(+65 °C) with ATEX Vort	ec cooler)
	-49°F 113°F (-	45°C +45 °C) with o	cabinet heater	
Operating requirements				
Electric power supply	100240 Vac / 4763 Hz / 100 W or 300 W with cabinet heater			

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**