Pre-Mixer Analyzer with Multichannels Option

ADP 200

The analyzer model ADP200 is designed to monitor accurately the AIR/GAS ratio pre-mixed which is sent to the burners.

It allows the AIR/GAS ratio adjustment to obtain the desired quality of the flame to get the optimum temperature and atmosphere in the furnace and to monitor over a long period the stability of the blending.



Main Cabinet



Example of installation : 32 ways instrument

Main characteristics

- From 4 to 96 channels analyzed sequentially
- Quick start up
- Easy to use with the Programmable Logic Controller (PLC)
- Accurate
- Maintenance free
- Compact and rugged

Principle

The sample to be monitored is going through a furnace at a fixed temperature of 800°C in a cell housing containing, at the inlet a combustion catalyzer and at the outlet a zirconium oxygen cell.

The measurement of excess oxygen or combustible after a combustion of the sample is processed in a digital electronic to give a dual range in % oxygen and % combustible on a 4 - 20 mA output and on a digital display.

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Technical Characteristics

ADP 200 analyzer	
Measurement principle	Residual oxygen content measurement (zirconium oxide cell) after catalytic combustion
Scale	0% to 21% O_2 for oxidant atmosphere 0% to 10% combustible excess for reductive atmosphere (other on request)
Accuracy	± 0.1% absolute value
Drift	Less than 0.1% of reading value
Repeatability	± 2% of reading value
Display	% O_2 / - % combustible excess
Analogue output	Scale low and scale high are settable with the configuration interface
Sample flow rate	30 to 50 L/h (fast loop in option)
Sample absolute pressure	1.5 bar maximum
Power supply	230 VAC, 50Hz / 110 VAC, 50/60 Hz
Electric consumption	500 W
Ambient temperature	10°C to 40°C
Weight	~ 40 kg
Industrial casing	
Industrial wall mounting casing	Main cabinet : 800 * 600 * 300 mm Cabinet with way selection : 800 * 600 * 300 mm (up to 24 channels per cabinet)
Channel number	From 4 to 96 channels + calibration gas input
Analysis channel selection	Automatic mode or manual mode Or external command (potential free dry contact or MODBUS TCP command)
Minimum substitution time between 2 channels	Adjustable (recommended 10 min)
Class protection	IP54
Gas connection	Inlet 1/8'' F cylinder 1 event outlet on 6/8mm pipe 1 outlet 1/8'' F cylinder purge

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Codification

Appareil	
Single channel premix analyzer (with filter)	ARCADP200-01+
Multichannel premix analyzer – 4 channels (with filter)	ARCADP200-04+
Multichannel premix analyzer – 8 channels (with filter)	ARCADP200-08+
Multichannel premix analyzer – 12 channels (with filter)	ARCADP200-12+
Multichannel premix analyzer – 16 channels (with filter)	ARCADP200-16+
Multichannel premix analyzer – 24 channels (with filter)	ARCADP200-24+
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