

Calibration Unit For Zirconia Oxygen Analyzer - ACUZ1



Auto Calibration Unit



Manual Calibration Unit

FEATURES

- » Easy to install
- » Compact design
- » Maintenance free
- » Economical

ADVANTAGES

- » Universal design
- » Suitable for different make of oxygen analyzers
- » High Performance

DESCRIPTION

The Zirconia Oxygen Analyzer is used to monitor and control the oxygen concentration in combustion gases, in boilers and industrial furnaces, for wide application in industries which consume considerable energy—such as steel, electric power, oil and petrochemical, ceramics, paper and pulp, food, or textiles, as well as incinerators and medium/small boilers. It can help conserve energy in these industries.

It also contributes to preservation of the earth's environment in preventing global warming and air pollution by controlling complete combustion to reduce CO₂, SO_x and NO_x.

Axis is providing system solutions for high availability, reliable, accurate with sampling system design where analytical measurement demands it.

The Axis Zirconia Analyzer calibration unit is designed for calibration process which is available with fully automatic & manual option. Choose the detector version which best suits your needs so that an optimal combustion control system can be obtained.

The system configuration can be classified into below basic patterns as follows:

SYSTEM 1 (MANUAL CALIBRATION UNIT)

- » This system is for monitoring and controlling oxygen concentration in the combustion gases of a large-size boiler or heating furnace. Clean (dry) air (21%O₂) is used as the reference gas and the span gas for calibration. Zero gas is fed in from a cylinder during calibration. The gas flow is controlled by the flow setting unit with manually setting of ball valve.

SYSTEM 2 (AUTO CALIBRATION UNIT)

- » System 2 uses the automatic calibration unit, with auto-switching of the calibration gas. In this System the gas flow is controlled by Solenoid valve, which is powered by an electronic signal from converter according to Sensor output.

ORDERING INFORMATION

ACUZ1																					9
Type of System																					
0		Auto Calibration System																			
1		Manual Calibration System																			
Type of Component																					
0		Axis Approved																			
1		Customer Specified																			
Area Class																					
0		Safe Area																			
1		Zone 2 IIA IIB																			
2		Zone 1 & 2 IIC																			
Hazardous Area Certification																					
0		Not Required																			
1		CCOE Certified (Note 1)																			
2		ATEX Certified (Note 1)																			
Power Supply																					
0		NA (Note 2)																			
1		24 VDC																			
2		115/230 VAC 50 HZ																			
Valve MOC																					
0		Aluminum (Only for solenoid valve)																			
1		SS 316																			
Enclosure Type																					
0		Self standing Rack																			
1		Wall mounting Box																			
Enclosure Material																					
0		MS Painted																			
1		SS 304																			
2		SS 316																			
Enclosure /Mounting Plate Dimention (Note 3)																					
0		400 mm (H) X 400 mm (W) X 210 mm (D)																			
1		500 mm (H) X 500 mm (W) X 210 mm (D)																			
Canopy																					
0		NA																			
1		MS painted																			
2		SS 304																			
3		SS 316																			

TECHNICAL SPECIFICATIONS

Mounting	Enclosure / Mounting Plate
Enclosure or plate Body Material	MS Painted / SS 304 / SS 316
Area Class	Safe area / Zone 1 & 2
Power Supply	24 VDC / 115/230 VAC 50 HZ
Type	Manual / Automatic
End connection	1/4" OD
Enclosure / Mounting Plate Sheet thickness	2 mm

Note 1: Not for Safe Area class

Note 2: For Manual Calibration System Only

Note 3: For mounting plate Please consider H & W

SCHEMATIC DIAGRAM

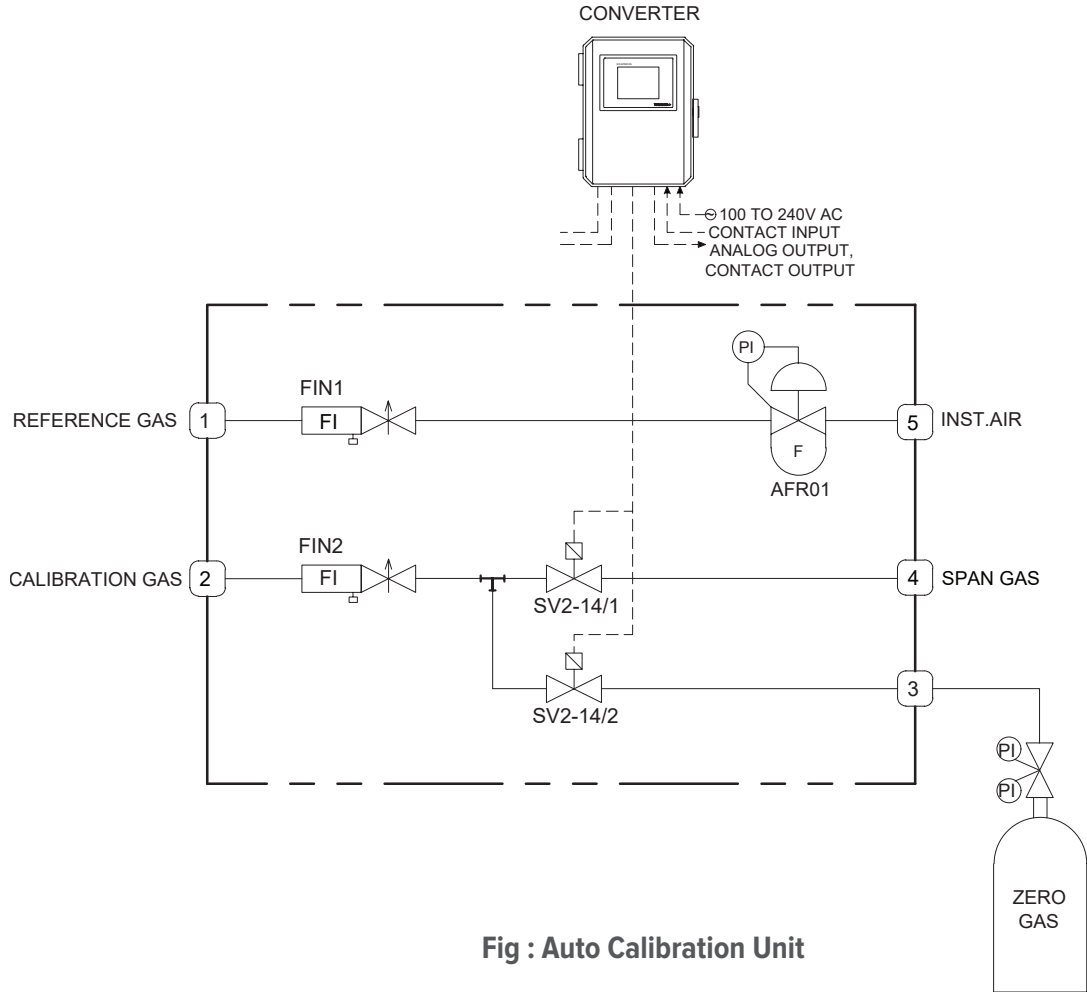
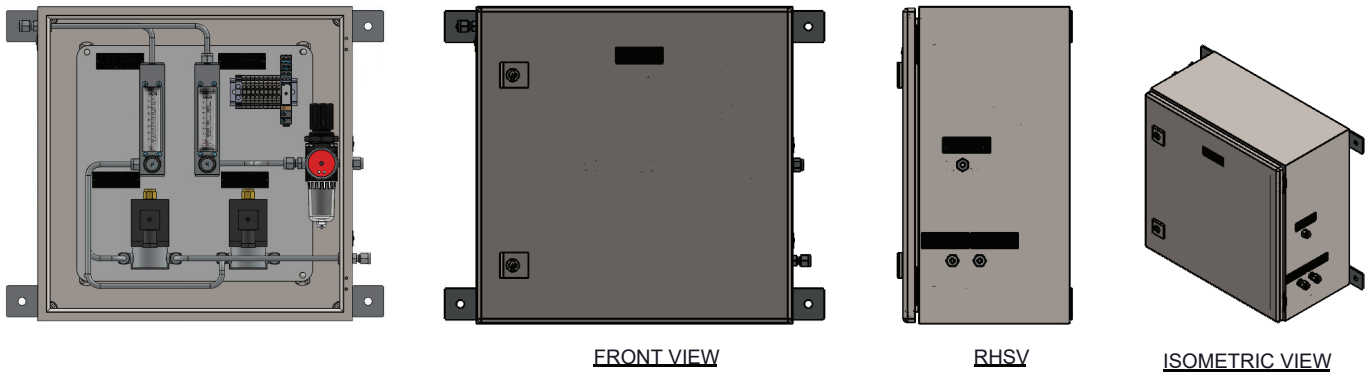


Fig : Auto Calibration Unit

Note : If you required manual system we can use ball valve in place of solenoid valve.

DIMENSIONAL DETAILS OF CALIBRATION SYSTEM



SPARE / ACCESSORIES

Description	Qty.
Needle Valve 1/4"OD*	2 No.
Rotameter 1/4"NPTF*	2 No.
2 Way Solenoid Valve*	2 No.
Air Filter Regulator, Polycarbonate bolw*	1 No.

Note : * As per Installation