Endura AZ30

Key specifications at a glance

Main features

Design
- In situ zirconium oxide sensor and remote or integrated transmitter
- Optional integrated auto-calibration system with or without restrictors

Reference air supply
- Supplied by on-site compressed air or optional pump

Probe flanges
- ABB flange, DN65, DN80 and DN100
- ANSI 2, 2½, 3 and 4 in, 35ES, 356S and 35100

System accuracy
- 20.75 % of reading or 0.05 % O₂ (whichever is the greater)

Response time
- Test gas Tₚ = 10 seconds

Process gas temperature
- –20 to 800 °C (–4 to 1,472 °F)

Power supply
- 100 to 240 V AC ±10 %

Max duct temperature
- 400 °C (752 °F)

Ambient temperature range
- –20 to 55 °C (–4 to 131 °F)

Communication
- Up to 2 current outputs
- 2 digital input/output
- User-configurable
- HART communication v5.7

HMI
- Through-the-Glass capacitive, intuitive SMART keys
- Transmitter is unopened in hazardous area

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Specifications subject to change without notice.
Endura AZ30
Complete solution for petrochemical refining

Versatile system capability enables use right across the petrochemical plant

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<td>600 to 1,400 °C</td>
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Hazardous area
- ATEX
- IECEx
- FM
- FMc

AZ30 system
- AZ30 transmitter
- AZ30 Probe
- Interface unit

AZ30 bypass system
- AZ30 sensor
- A230(AZ25) Interface unit

Potential sample points
- Stack, often 300 to 500 °C (572 to 932 °F)
  – AZ30 explosion-proof
- In convection zone of furnace outlet, often 600 to 900 °C (1,112 to 1,652 °F)
  – AZ30/bypass explosion-proof
- AZ30/AZ25 interface unit

Endura AZ30
Integrated auto-calibration system with restrictors

Fully automatic system provides complete confidence by controlling the gas sequence and eliminates incorrect calibrations

AZ30 integrated restrictors simplifies installation
- No need for external on/off valves for gases
- No need for needle valves to set the flow rate
- No need for flowmeters

Integrated AZ30 autocal unit
- Test gas supply: restrictor in autocal unit limits flow to 2.2 l/min (4.662 scfh) at 1 bar (15 psi)

AZ30 probe with restrictors

Endura AZ30
Hazardous area operation from ambient to high temperatures

Explosion hazardous certification
- FM, ATEX and IECEx
- IL 2 GD
- Ex d IIB + H2 T4 Gb (Ta –20 to 70 °C)
- Ex tb IIC T135 °C Db (Ta –20 to 70 °C) IP66
- Cert. No. IECEx BAC12D048X
- ATEX Cert No. BA2210A126/076X
- Class I Division 1 Groups BCD T4
- Class I Zone 1 AEEx/Ex d IIB+H2 T4
- Class II Division 1 Groups EFG T4 (Ta –20 to 20 °C) Type 4X

Endura AZ30
Bypass system for high temperature, hazardous areas

Specification
- –20 to 1,400 °C (–4 to 2,552 °F)
- Sensor in external extractor system
- Compressed air is applied to the chamber and ejected
- Process sample drawn through ceramic tube and cooled to a safe operating temperature
- NB 3 in SCH 10 316 tube ASTM A312-87
- With vacuum generator and pressure relief valve
- For low dust petrochemical processes
- Ceramic inlet tube lengths: 600 and 900 mm (23 and 35 in)
- Process flanges:
  – DN80 and DN100 PN6
  – ANSI 3 and 4 in 150 lb RF