

Product Data Sheet

Model G-CEM4000 Flue Gas Analyser

Multi-Species Flue Gas Analyser

The G-CEM4000 is a multi-species flue gas analyser, which uses Non-Dispersive Infrared Absorption (NDIR) technology. It provides high accuracy, low maintenance measurement of all the key combustion process emissions to atmosphere. Its performance can be verified automatically or manually on demand by the injection of zero and span protocol gases into the probe sample chamber.

The analyser utilises an in-situ diffusion probe. Flue gas diffuses into a sample cell at the end of the probe via an array of stainless steel sintered filters enabling measurements to be made, even in gas streams with very high dust loadings, without impairment of either accuracy or maintenance intervals.

- multi-species infrared absorption analyser
- up to seven gas species
- in-situ probe measurement
- high accuracy - low maintenance
- zero and span verification by protocol gases
- analogue and serial digital output
- integral gas temperature and pressure measurement for data normalisation

Measurement Species

Sulphur Dioxide	Nitrogen Dioxide
Nitric Oxide	Carbon Dioxide
Carbon Monoxide	Hydrogen Chloride
Methane	Water Vapour

MCERTS
certified product

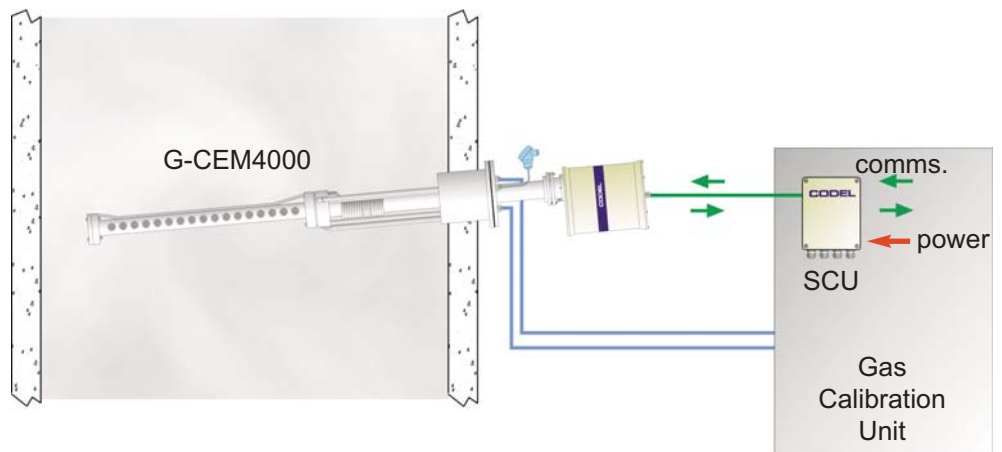
sira
Certification Service

UKAS
PRODUCT
CERTIFICATION

011
Sira MC 070098/00

MCERTS

Up to seven gas species can be monitored with a single analyser. Integral measurement of flue gas temperature and pressure allows full data normalisation to STP conditions.

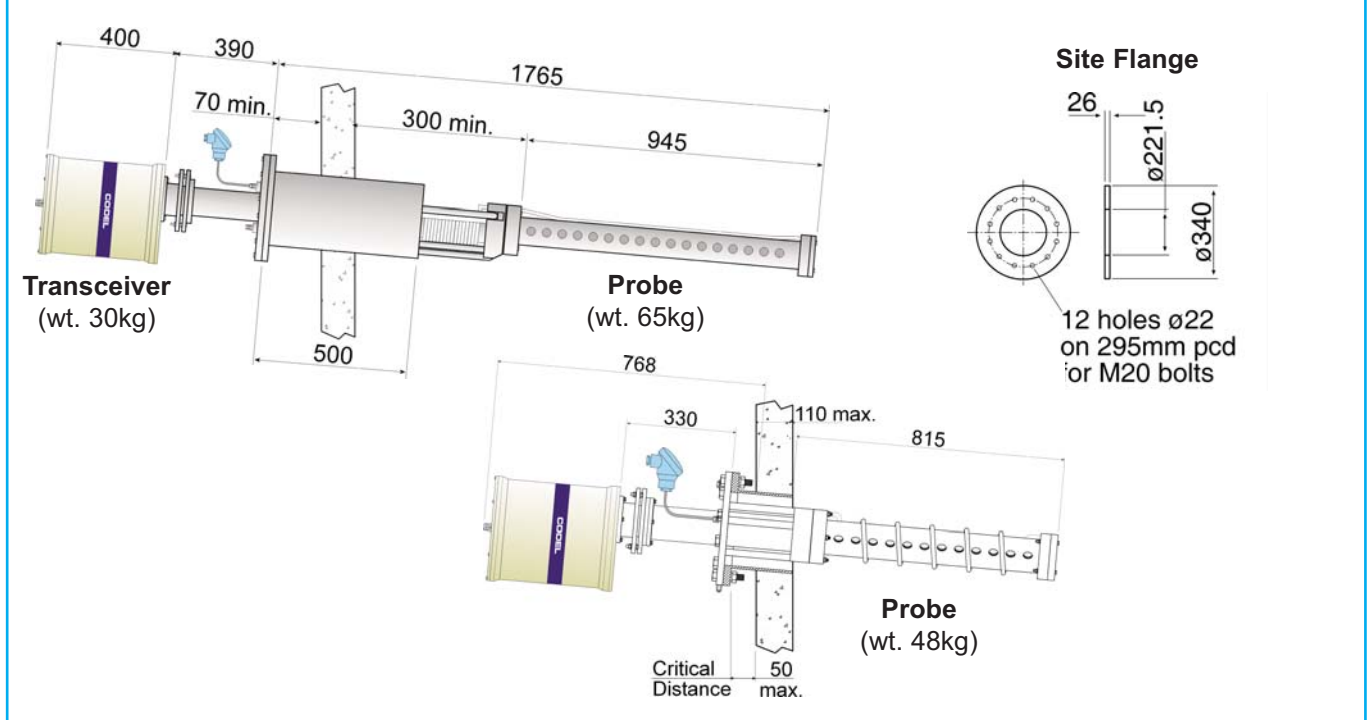


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Total Solutions - Total Confidence



Overall Unit Dimensions



Specification

Analyser

Measurement : ppm or % by volume
 Units : mg/m³ (measured)
 : mg/Nm³ (normalised)

Averaging : selectable in the range 10sec - 1hr

Accuracy : all channels +/-2%

Flue Gas : dewpoint to 300°C
 Temperature : dewpoint to 500°C (with high-temperature probe)

Probe Detail : length - 2m
 : diffusion cell - 1m folded beam

Construction : probe - 316L stainless steel
 : analyser - epoxy-coated aluminium to IP68

Ambient Temperature Range : -20°C to +50°C

Power Input : 98 to 264V AC, 600W

Purge Requirements : compressed air clean & dry to -20°C, 2 lit/sec

Compliances

MCERTS : certified product (SO₂, NO₂, NO, CO & H₂O)

EMC : 89/336/EEC directive compliant

Low Voltage : 73/23/EEC directive compliant

Analyser Parameters

Species	Range	Zero/Span Drift Rate	Linearity	Repeatability	Response Time
SO ₂	3000ppm*) *up 50000ppm by special arrangement	<2%	<2% span	200sec
NO ₂	3000ppm				
NO	3000ppm				
CO ₂	25%	2% span/month			
CO	3000ppm)			
HCl	1000ppm)			
CH ₄	3000ppm)			
H ₂ O	25%)			

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