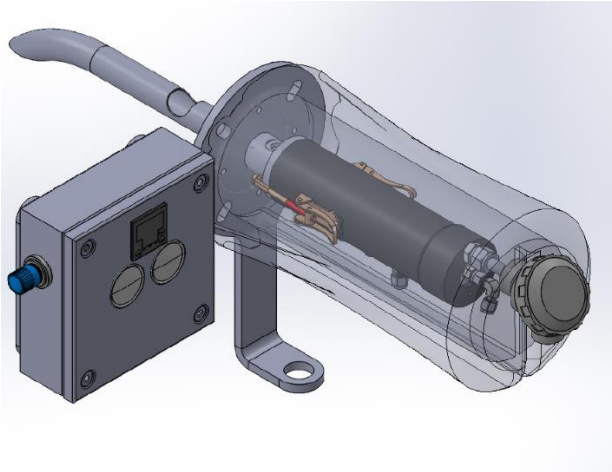
OXYDAN® DP7900 Manual Control Box



OXYDAN®
DP7900-MCB

Exhaust Gas Sampling Probe for Continuous Exhaust gas Emission Monitoring

Applications

- EXHAUST GAS MONITORING
- EU – MRV/ETS GHG Marine CEMS
- COMBUSTION CONTROL
- PROCESS MONITORING
- SO2/CO2 SCRUBBER CEMS

Features and benefits

- Standalone sampling system
- Local probe control of temperature, probe vacuum and dilution air pressure.
- Unheated Sample Line
- Direct "Wet Basis" measurement makes total mass calculation easy and direct as exhaust gas flow are measured wet as well.
- Calibration gas directly to the probe
- Zero Velocity filter up to +2 years
- Fast response time
- Sample clean as the ambient air, no contamination of sensors / analyzers measuring cells.
- No mowing parts

Overview

The technique is based on extracting a small sample from the stack, removing particulates by a proprietary filter, and then accurately diluting the sample with clean, dry zero air thus, reducing the dew point to prevent condensation of water vapor and acid mist in the sample line.

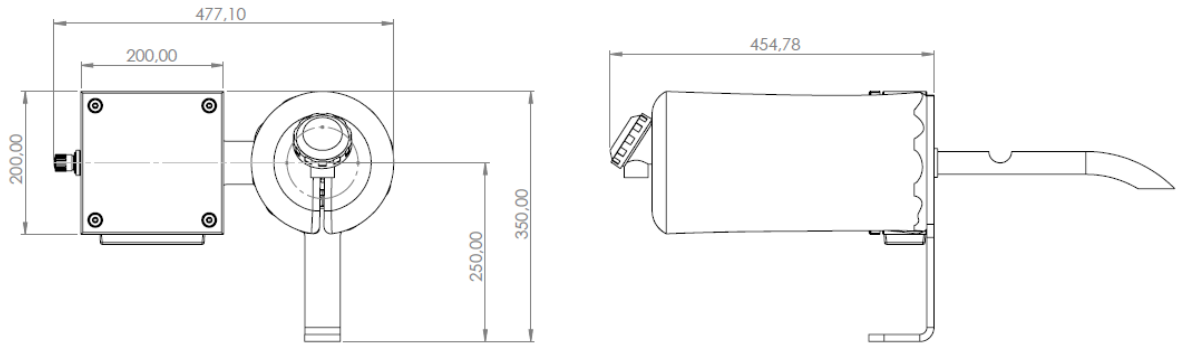
The diluted sample is then forced under pressure in unheated sample line to the location where it is analyzed by gas sensors / analyzers.

The dilution probe system uses dry contamination-free air (“dilution air”) and an ejector (also referred to as a venturi pump) to extract a diluted exhaust gas sample from an exhaust stack or duct.

Calibration of the system is achieved effectively by sending span or zero gas directly to the stack and directly into probe. This method ensures the complete sampling train and sensor system are compensated from probe tip to concentrations read out and provide very precise and accurate measurement results.

Once you connect instrument air from a swing absorption dryer and a power supply the probe will initiate the delivery of a diluted sample to your gas sensors when probe parameters are within limits.

Specifications:						
Model	OXYDAN® DP7900					
Application	Continuous Emission Monitoring System / Process control					
Sampling Method	Dilution / extractive					
Dilution ranges *	Orifice size	Flow Nom.	3,7 bar	4,2 bar	5 bar	5,5 bar
	Sample	ml/min.	Dil. Rate	Dil. Rate	Dil. Rate	Dil. Rate
	8	50	**304**	**318**	**377**	**413**
	10	79	**195**	**203**	**241**	**264**
	12	113	**135**	**141**	**168**	**183**
	15	177	**86**	**90**	**107**	**117**
	17	227	**67**	**70**	**83**	**91**
	18	254	**60**	**62**	**74**	**81**
	20	314	**48**	**50**	**60**	**66**
	25	491	**31**	**32**	**38**	**42**
	30	707	**21**	**22**	**26**	**29**
	Dilution rates are approximated. Total sample flows 10 to 15 L / min.					
Sample gas temperature	Max. 500 °C (optional 1200°C)					
Probe temperature **	~150 to 200 °C					
Particulate filter	Zero velocity filter, pore diameter down to 1 µm					
Ambient temperature	Probe 0 to 55 °C					
Instrument air	Min. 6 bar non-condensing, oil free (consumption 20 NLPM)					
Instrument air quality requirements	ISO8573:1 – 2001, Class 2 dirt (1 micron) and Class 2 water (-40° C pressure dew point) **[Use only swing-absorption dryers]**					
Probe heater supply	**Voltage**			**Consumption**		
	240V AC / 115V AC			250W		
Probe status	SPDT contact					
Probe materials	Probe: Stainless steel 316L / Heater jacket: Aluminum Anodized					
Pneumatic connections	8 / 6 / 4 mm SS316 compression fittings					
Process connection	Combi Flange fits DN65 PN6 and DN80 PN6					
Probe size	~ 35 x Ø13 cm not including insulation jacket					
Probe weight ***	Probe with flange 13 kg					
Options	Sample pipe Blow-Back					



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