

Software WinEMAG

CONTROL EMISSION SYSTEM



WinEmag is complete emission control system, which provides high quality and comprehensive tools to continuous emission monitoring systems. System modularity, its high flexibility, and universality allows connection of several emission sources to one data acquisition system only. In addition, it does not require any intermediaries industrial data loggers, because it is capable to monitor in real time all the required values directly from the analyzers and digital or analogue inputs.

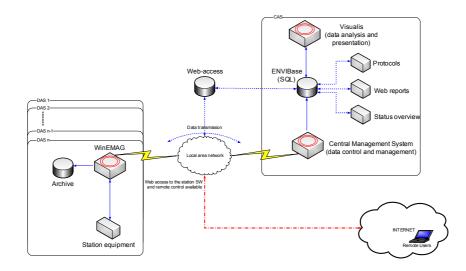
General characteristics:

- Fully in compliance with EN 14181
- provides emission monitoring in accordance with Ordinance 706/2002, 408/2003 and WID 2000/76/EC
- includes professional tools for data evaluation, analysis, visualisation, reporting and presentation



Basic features:

- The data are stored in PC (flexible sampling period, i.e. 5 seconds)
- SQL format database with flexible structure
- Archive data backups (almost unlimited data amount backups)
- Different averaging functions are applicable (1, 30, 60 ... min)
- Status signals and alarms evaluation data validity flags
- Convert volume/volume concentrations to mass/volume concentrations
- Provide intuitive on-screen menus for an operator to check the status of instruments
- Run diagnostic checks on all on-line instrumentation
- Allow data exchange with a portable laptop, USB flash disc or with remote device
- Enable an operator to re-configure the system either on site or remotely via GSM/Ethernet
- Data correction according to regulations in force
- Correlation of measures with plant status signal and operating conditions (produced power, fuel flow, steam flow
- Automatic emission limits evaluation and official report generation
- Manual and/or remote calibration including QAL3 evaluation (CUSUM)
- Extension of reporting tools according to regulations in force
- Data export to MS Office formats or TXT files



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	Stee	I factory Kard	emir - CEMS2	- YF4 Plant				
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Source ID No.	1012		Input channels:					
Source name	Steel factory, YF4Ptant Kardemin		Quantity	Unit	Value	attribute		
Source status	No operation		S02	mg/m ³	-23.02	Invalid		
Fuel	NO DEF		NOx	mg'm ³	0.05	Invalid		
Date	05.09.2013		co	mg/m ³	7.92	Invalid		
Time	08:19		CO2	9/m ³	21.25	Invalid		
		DUST	mg/m ³	34.00	Invalid			
Digital channels;			02	%	10.34	Invalid		
Name		Status	TEMP	*C	253.92	Invalid	_	
gas analyser error			PRES	mbar	989.84	Invalid		
gas analyzer function check			FLOWi	Nm ³ /h	125034.31	Invalid		
gas analyzer maintenance r.			TEMP hose	*C	27.00	Invalid		
NO/NO2 converter temp, alarm		Mathematical channels:						
sample gas flow alarm			Quantity	Unit	Value	attribute		
sample gas cooler alarm			SO2r	M ⁶ m/gm	-0.00	Invalid	_	
dust analyzer alarm			NOxr	mg'm ³ N	0.00	Invalid	_	
			COr	mg/m ² N	0.00	Invalid	_	
system maintenance/probe purging			CO2r	g/m ² N	0.00	Invalid	_	
general system alarm			DUSTr	mg/m ³ N	0.00	Invalid	_	
condensate alarm			MISO2 MINOx	9/5	-0.36	Invalid	-	
Raw sensor purging			MNOx	g/s g/s	0.00	Invalid	_	
			MICO2	9's 9's	6532.47	invalid	-	
			MOUST	9/5	1 18	Imaid	-	
			FLOW	Nm ³ /s	15.65	Incalid	-	
peration								
Database directory	C:\Archiv							
Archiving time	500 days							
Measuring software system	WinEmag© ENV/tech							



Data evaluation, analysis, visualisation, reporting and presentation (module Visualis):

- Data validation according to regulations in force
- Built-in statistics tools, data filters, attributes etc.
- Cross check with legal limits
- Moving (rolling) or interval averaging function
- Hourly and daily trends of acquired values, daily statistics
- Acquisition of alarms and fault detection
- Evaluation of zero and span drifts (in compliance with QAL3)
- User selectable data outputs graphs, tables, wind or concentration roses, statistics diagrams, calibration protocols, CUSUM cards etc.
- Simple and easy access to your database with data conversion possibility, ISO data converters available
- Possibility of creation of own mathematical formulas and visualization schemes, project and user based data processing
- User selectable export forms easy reporting
- The WinEmag also provides a web presentation tools, which allow to display all stack status parameters and measured data on a web page. The multiple stack visualisation is available (sevaral stack information displayed on one page).
- Additional modules for special visualisation of data are available on request, e.g. an integration of data to geographical background etc.

Company: Measuring place: Total CEMS operation time: ID of autorized persons: Printed, Date: Quantity		Steel fa Karden Ohour 0 05.09.1	nir Imin		Source: Code: Page:	YF4Plan 1012 2/6
		SO2r NOxr		COr	CO2r	
Unit		ma/m ³ N	ma/m ³ N	mg/m ³ N	g/m3N	
EL		-	-	-	-	
1(%)		20	20	10	30	Note
DAV		1.4	2	1993	-	
MPD in kg		0.00	0.00	0.00	0.00	
n HHAV < EL+I		0/0%	0/0%	0/0%	0/0%	-
n HHAV > 2(EL+I)		0/0%	0/0%	0/0%	0/0%	
n valid HHAV		0	0	0	0	
n invalid HHAV		0	0	0	0	
n replaced HHAV		0	0	0	0	
fraction of F HHAV at S	0					
EQ		0.00	0.00	0.00	0.00	
Min HHAV						
Max HHAV						
Legend: HHAV < EL+I C - HHAV > 2(EL+I) F - invalid E - replaced Q - DAV > EL	SU - Sta S - Shut SO - Sta T - Test CAL - C	ting able operation ing alibration Other state	H D E I	AV - Daily Avera Q - Emission qu Error band	ly Average Value age Value	

