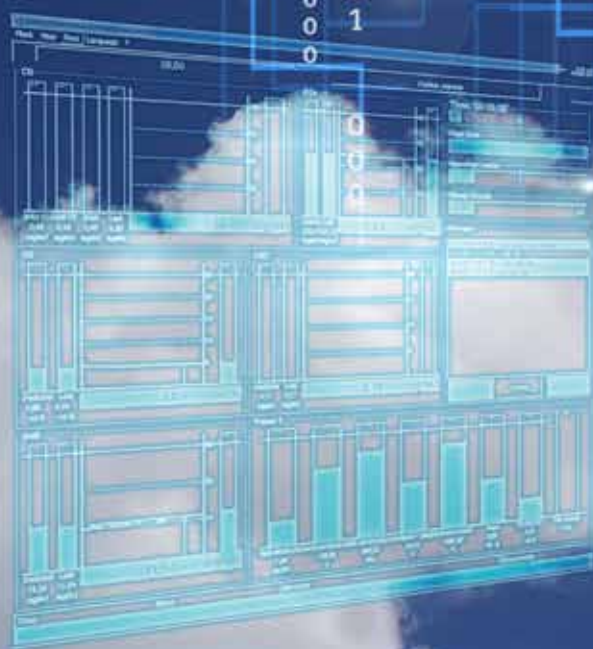




SIEMENS

Ingenuity for life



Emissions under control with the software solution EMIDATE

Smart and systematic recording and
evaluation of emission data.

www.siemens.at/emidate

The software solution EMIDATE from Siemens collects, monitors, evaluates and stores all emission related values and plant states.

This allows the monitoring of pollutants to permissible limits. The results are graphically visualized and stored.

We offer complete systems:

On request Siemens can supply a complete gas-analysis system – from gas extraction, gas conditioning and analyzers to the continuous emission monitoring system EMIDATE – including hardware and software engineering as well as on site commissioning.

Officially examined and certified

Based on Austrian laws and regulations as well as standards EMIDATE was developed by Siemens since the 1980's.

The current version was

- Type approved by TÜV Österreich according to OeNorm M9412,
- MCERT certified by SIRA,
- Certified according to EN14181 by Synlab.

EMIDATE is compliant with

- LCPD (Large combustion plant directive)
- WID (Waste incineration directive)

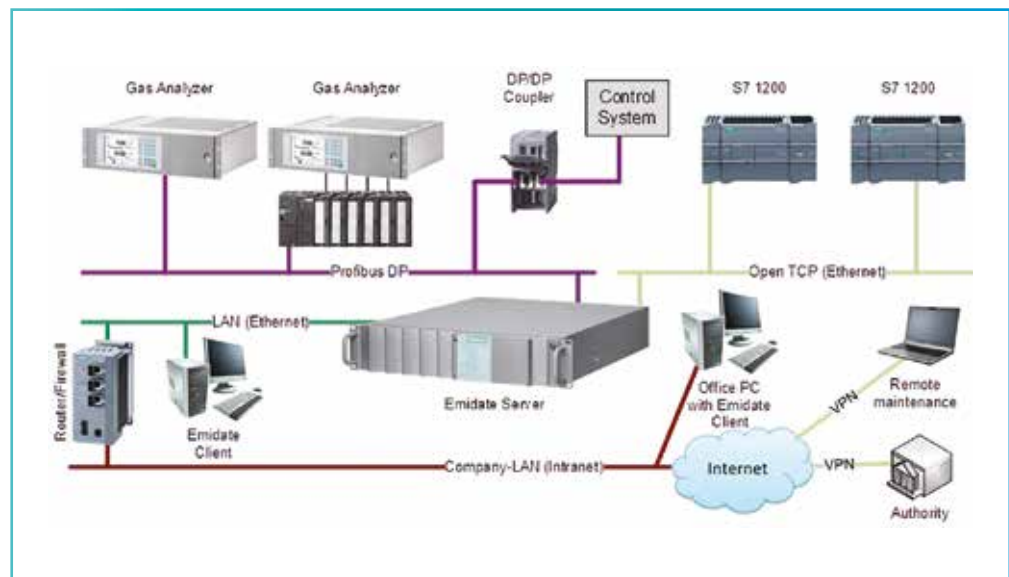
Modular system

The system is modular and relies on proven standard components. Therefore it can be easily adapted to fulfill non-standard requirements of customers and authorities. The data acquisition is done via the industry-standard Profibus or Ethernet.

As peripheral components amongst others the following SIMATIC devices can be used:

- ET200M
- ET200S
- DP/DP-coupler
- SIMATIC CPUs with PROFIBUS Slave Interface
- SIMATIC S7-1200

Using a SIMATIC CPU as gateway enables EMIDATE the use of all systems that are compatible with a SIMATIC CPU.



System topology

EMIDATE is installed more than 150 times world-wide. From Australia to Yemen in power plants, waste incineration plants and district heating plants as well as in other industrial plants.



Highlights of EMIDATE

- Online parameterization
- Easy manageable and expandable multi lingual user interface
- Freely adjustable actual-value and compression cycles
- Easy access to stored data (graphs and tables)
- Automatic export of data to Intra- and Internet
- Acknowledgment for messages including acoustic alerting
- Entering comments by the plant operator – triggered spontaneously or by a particular event (with optional approval process)

One license – many possibilities

The well structured license model enables a cost effective use of EMIDATE from small to huge plants. Based on the server/client architecture each EMIDATE server can also act as a client for other servers in the network. Emission data (online-values and stored values) can be visualized on different clients – even in the office network.

Reporting

Reports, which are amongst others used to proof of fulfillment of authority regulations, can be generated periodically or on demand. The generated protocols can either be printed or saved as a pdf-file. These pdf-files can be sent via eMail or transferred to a FTP-server.

In addition to the requirements defined in ÖNORM amongst others an Excel protocol is available, where all data stored in EMIDATE can be processed and presented with all available Excel functions. As template all IED reports are available.

A scheduled export of data in a machine-readable format for distribution to a network via FTP is available. Thus, various data exports to control systems or authorities can be realized.

Applied in various branches

EMIDATE is mainly used in power plants, waste incineration plants and district heating plants, but also in other branches such as the chemical, cement and paper industry. The system can also be used as a data acquisition system for non-emission relevant applications.

References

EMIDATE is installed more than 150 times worldwide. A detailed reference list can be found under www.siemens.at/emidate.

Country	References
Australia	Kogan Creek
Austria	AKH, ARP Graz, Biomasse Korneuburg, Biomasse Stockerau, Biomasse Tuln, BHKW Villach, Chemie Linz (3x), Energie AG Oberösterreich (4x), EVN (9x), Fernwärme Wien (7x), FHKW Wels, FHKW Graz, Infineon Villach, Jungbunzlauer, KRV Arnoldstein, KH Wien Nord, Krematorium Graz, Krematorium Wien, Kaindl, Lenzing AG, MAN Steyr, Magna CMST, Montanwerke Brixlegg, MM Karton Frohnleiten, Papierfabrik Steyrermühl, Rauch Fruchtsäfte, SCA Laakirchen, Shire Krems, Swarovski (2x), Smurfit Kappa, Stadtwerke St. Pölten (2x), TRV Niklasdorf, Voest Linz, Verbund, Wattenspapier, Werndorf, Wienstrom Kraftwerk Simmering
Argentina	Energetico Zarate
Azerbaijan	Sumgait
Bahrain	AlEzzel
Belgium	Antwerpen, Stein (2x)
Brasil	Fortaleza
Chile	Aconcagua, Quintero (2x), San Isidro (2x), Taltal (2x), Tarapaca
Croatia	INA Rijeka, TETO Zagreb

Country	References
Dom. Republic	Los Minas
Dubai	AlAweer (2x), Jamex
Egypt	Beni Suef, Burullus, New Capital
England	Marchwood, Severn Power, Saica
India	Samsun, Sugun, Unosugen
Ireland	Huntstown
Israel	Alon Tavor, Ramat Gabriel
Kosovo	KEK
Kuwait	AzZour (2x), Sabiya (3x)
Malaysia	Panglima, Pengerang
Malta	Delimara
Montenegro	Pljevlja
Netherlands	Diemen, Hemweg, Enecogen
Nigeria	Azur Edo
Norway	Karstoe
Oman	Barka, Qurayyah, Sohar
Philippines	San Gabriel
Polen	Plock
Portugal	Ribatejo
Qatar	Ras Laffan
Russia	MVA Moskau
Saudi Arabia	Al Jubail (3x), Al Khobar (2x), Al Khabij, Al Shuquaiq, AlWadjh, Arar, Duba, GLEMS-HAIL, GLEMS-JUBA, GLEMS-PP9

Country	References
Saudi Arabia (Fortsetzung)	Hail, Jeddah (2x), Jubail, Juba, Makkah, PP9-I, PP9-II, Rabigh (2x), Rafha, RasAlKahir, Shoiba (2x), Shuaibah, Tabuk (2x), Ta'if, Yanbu (2x)
Serbia	Elixir Zorka, TENT A, TENT B, TE Kolubara, Vreoci
Singapore	DGEN, GMR Singapur, Pulau Seraya (2x), Tuaspring
Slovenia	Acroni, Energetika Ljubljana, Energetika Maribor, Knauf, Lafarge Trbovlje, LEK Lendava, LEK Menges, TETOL Ljubljana, TE Brestanica, Vipap Krsko
South Africa	Eskom (3x)
Spain	Arrubal
Thailand	Bang Pakong, Bangkok South, Chana, Songkhla, Wang Noi
Turkey	Antalya (2x)
UAE	Shuweihat (2x), Taweelah
Vietnam	Ca Mau (2x), Nhon Trach, Phu My
Yemen	Marib

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