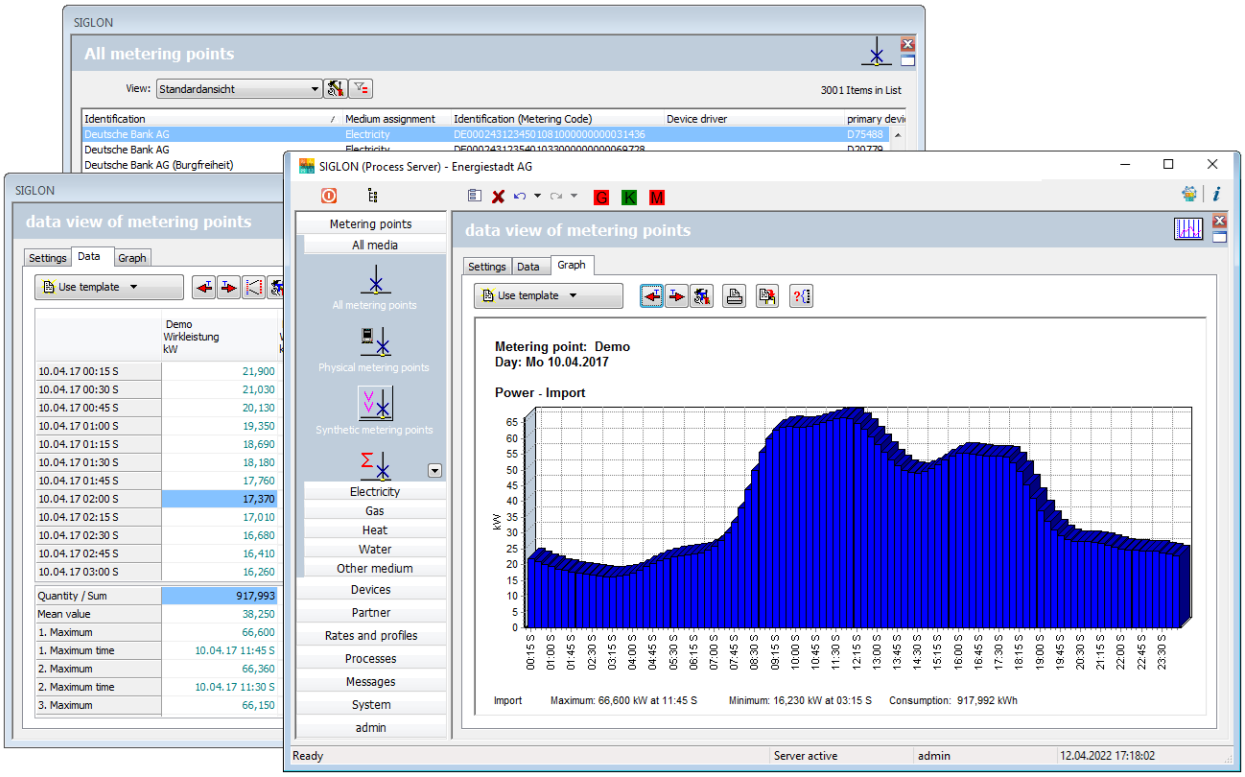
Data Acquisition System

(AMR Automated Meter Reading)

System Description | Doc.-No.: E01120050000



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Revision History

Version	Date	Comments
1.00	18.11.2003	Initial release
1.04	11.03.2005	Driver reference updated
2.05	17.05.2006	New Layout
2.32	18.12.2009	Reference number systems and messages extends Driver reference updated
2.41	23.06.2010	Driver reference updated
3.10	22.03.2011 09.06.2011 18.10.2011	New Layout Driver reference updated Driver reference updated
3.20	22.02.2012 14.05.2012	Driver reference updated Driver reference updated
4.00	01.07.2013 29.08.2013 20.09.2013	EEG functionality: control on device, operational monitoring Quick selection Driver reference updated Driver reference updated Driver reference updated
4.10	18.03.2014	Driver reference updated
4.20	29.09.2014	Driver reference updated
4.21	06.02.2015 20.03.2015	Driver reference updated Driver reference updated
4.30	05.08.2015	Driver reference updated
4.40	16.09.2015	Driver reference updated
4.50	26.08.2016	Driver reference updated
4.60	29.09.2016	New security guidelines Driver reference updated
4.70	09.12.2016	New forecast and correction system Driver reference updated
4.80	09.08.2017	Database management changes Driver reference updated
	27.09.2017	Driver reference updated
	06.11.2017	Driver reference updated
	09.02.2018	New layout
	12.03.2018	Driver reference updated
	11.05.2018	Driver reference updated
	05.07.2018	Update system requirements (OS, DB)
	10.05.2019	Driver reference updated
	03.07.2019	Driver reference updated
	31.10.2019	Driver reference updated
	03.04.2020	Driver reference updated
	04.05.2022	Driver reference updated
	16.09.2022	Driver reference updated
5.00	16.09.2022	New option: Internet Security Update system requirements (OS, DB) New logo

Features

SIGLON is a client/server system that was specially designed for the tasks of collecting and processing metering data. **SIGLON** presents the responsible managers with a fast and efficient tool that captures meter data in a simple and automated manner and surrenders the necessary data to other involved partners in the required format.
Due to the fact that various parties have different interest in the data and, from a legal perspective, may only have access to certain areas of data, an access right management system is an integral part. This ensures that independent of the number of users and terminals each user is presented with „his/her“ surface and only has access to “his/her” data.
The recent tendency towards “horizontally wide” suppliers puts new demands on the collaboration in the enterprise. Data can be captured and processed from all meter types such as electricity, gas, heat and water. Standard protocols are available as readily integrated components and many device variants are already implemented.
Many functions are available for the management of the meters themselves, thus making the handling of meters easier.

The **SIGLON** software supports the following functions:

- Automatic collection of billing data or load profiles (incl. reset or synchronization) from meters and tariff devices;
- Multi terminal configuration with specifically tailored terminals for different tasks (e.g. meter management, sales, broker, etc.);
- Title management for each participant (technician, broker, procurer, sales, etc.);
- Apart from electricity all other carriers of energy or mass can be used: gas, heat, water;
- Easy modeling of process images for an energy supply company in a deregulated market;
- Creation and administration of physical, virtual and synthetic metering points for measurement circuits, calculation circuits, balancing circuits and control circuits;
- Uses standard databases (e.g. MS SQL Server);
- Import of data from other systems;
- Flexible configuration of data export (content, configuration, protocol and transmission path);
- General administration of meters and other devices (manufacturer, serial number, calibration periods, etc.);
- Future extensions supported by modular design;
- Menu controlled user interface with MS Outlook or tree navigation;
- Integrated Windows service program (option);
- Remote control via TeamViewer (option);
- Multilingual menus;
- EEG functionality (German Renewable Energies Act): control on device, operational monitoring;
- Mixed-Mode authentication: SIGLON or Windows authentication (local or active directory);
- Forecast and correction system;

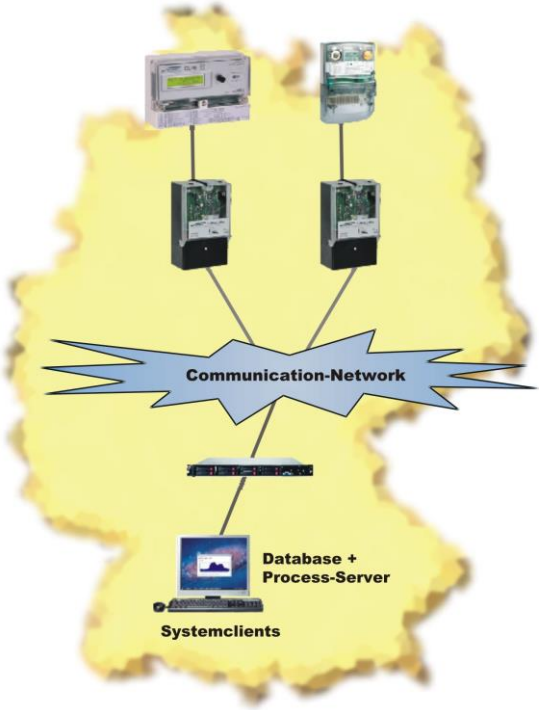
Depending on the functionality **SIGLON** uses various types of computers:

- **Process server**: PC (or virtual machine) with **SIGLON** main program or **SIGLON** service with connection to LAN (only one per system). On this PC all physical communication interfaces (COM ports with modems or TCP/IP) for the connection to meters and other devices are installed.
- **Database server**: PC with the system database (only one per system);
- **Work terminal (client)**: PC used by individual users to operate the system (several terminals are possible in one system);

In a standalone version the process server and the database server are integrated with the local work terminal. In a networked system the process server and the database server can be installed on separate computers.

Stand Alone System

In a standalone system the process server and the database server are combined with the local (and only) workstation.

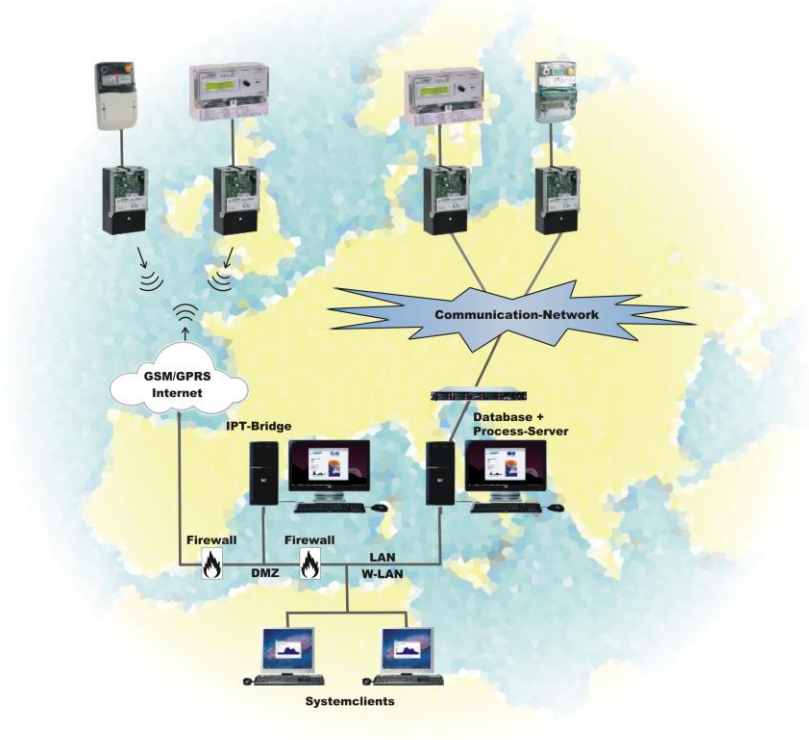


This configuration is suitable as entry solution for the remote data capture is designed for small or medium size utility companies or industrial energy consumers. Several hundred metering points can be managed with this system configuration. The user has the option to expand this system into a multi terminal configuration at any time in the future. Standalone systems are recommended to use the Microsoft SQL Server; however Oracle, PostgreSQL or MySQL can be used optionally.

Figure 1 S*tandalone system (basic implementation)*

Medium Size System (client server)

In multi terminal configurations the process server and the database server can be installed on separate computers (client server architecture).
In a medium size system the process server and the database server are located on a computer connected to a LAN. This server can then be accessed by individual local work stations (clients).



This configuration is suggested as the standard solution for remote data capture and is suitable for medium size utility companies or large industrial consumers having an energy network of their own. This system configuration can handle from several hundred to several thousand metering points. Future expansions are possible.

Figure 2 *Medium size system*

Large System (client server)

In a large system the process server and the database server each are located on individual networked computers. The individual communication server can operate up to 1024 communication lines (e.g. with modems, interfaces or TCP/IP lines) in parallel. Both servers can be accessed by the individual local work stations (clients).

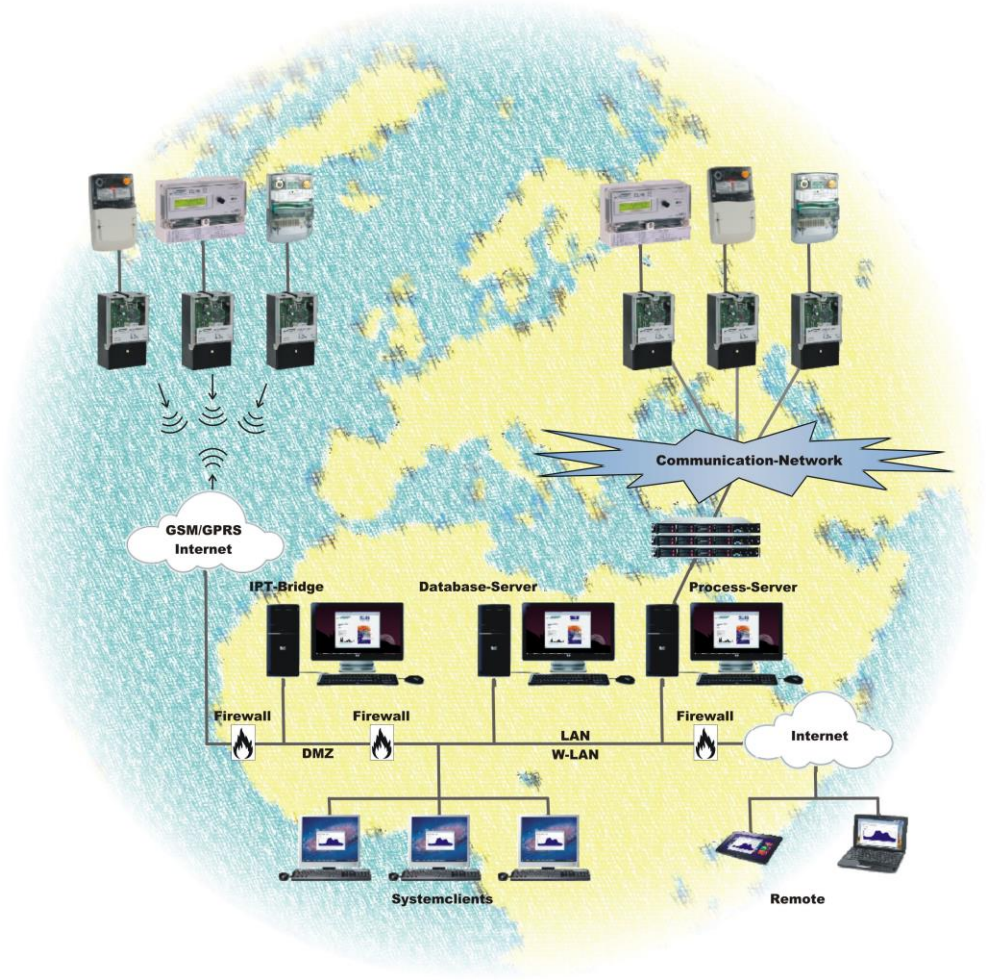


Figure 3 *Large system*

This configuration is provided as the solution for highly demanding applications and is suitable for national utility companies or very large industrial consumers with extensive energy networks. It can manage several hundred thousand metering points. This requires a professional database as well as external internet and printing services.
Redundant computer systems (i.e. where failing individual components can be swapped during operation) are recommended. The optimum configuration has to be tailored specifically for each project.

Functions

All of the software functionality is accessible via the menu controlled graphical user interface.

The following process steps are required between the supply of energy and invoicing:

- The utility company provides the metering equipment;
- **SIGLON** captures, processes and exports the data;
- The utility company creates the invoice with other software and forwards it to the customer.

In this chain **SIGLON** performs the process steps illustrated below:

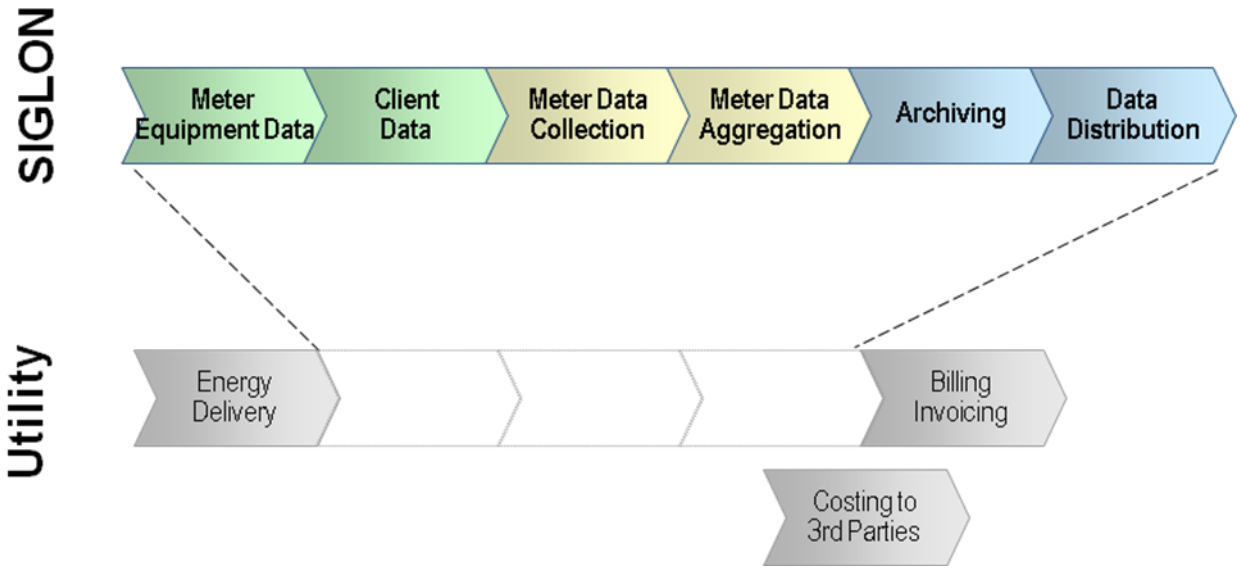


Figure 4 *SIGLON functions*

- **Administration**: 

  - All information related to metering points is stored in the meter data administration ((e.g. device driver name, telephone number, data channels, calculation parameters, etc.).
  - Device related information can be stored optionally (e.g. serial number, shipping date, current location, certification period);
  - Customer data can be stored optionally (e.g. customer address);

- **Data collection and processing**: 

  - Communication to the metering point is established via communication channels (e.g. telephone, GSM, leased line, TCP/IP, etc.);
  - Storage of data from the metering point (billing data and/or load profiles);
  - Storage of raw metering data in the database;
  - Processing of data: Conversion of raw data into actual measurement values (primary values);
  - Calculation of virtual data channels;
  - Presentation of data in tables and graphics;

- **Archives and data distribution**: 

  - Storage of primary values in the database (long time storage);
  - Export of data into customer specific invoicing software (e.g.: MS EXCEL, MSCONS, Schleupen, ...)

System Requirements

Computer:	PC, min. Intel Pentium 2 GHz or comparable PC
Main memory:	≥ 4 GB (RAM)
Hard disk:	ca. 20 MB for installation and ≥ 10 GB for operation with database (at the database server)
CD-ROM/RW, DVD-RW:	required for installation, recommended for backups (CD or DVD write drive in the database server)
RS232 / USB:	required for process server, recommended: port server
DCF77 / GPS receiver:	highly recommended
Monitor:	mind. 19”, recommended 22” or 24” (mind. 85 Hz)

Operating system:	**Microsoft Windows 7…11** or **Microsoft Windows Server 2008…2022** Recommendation of the manufacturer: **Microsoft Windows 11** or **2019/2022 Server** File system: **NTFS** (for database > 4GB)
Database:	**MS SQL Server 2008…2019** **Oracle 9i** **PostgreSQL** **MySQL 5.0** For smaller systems it is possible to use the free **MS SQL Server 2019 Express Edition** database: max. 1 GB RAM and 10 GB database size (1 phys. processor).

Ancillary:	Installed version of **Microsoft Office (2007…2021** and **up)**
Network:	Multi terminal systems (client server architecture) require a LAN with TCP/IP connections, recommended is a minimum of 100 Mbit/s
Modems:	Analogue/PSTN: full duplex, mind. V.32 ISDN: X.75 and V.110 GSM: mind. Dual band (900/1800MHz)
Printer:	Colour laser printer

Data View

In the data view physically read data and virtual calculated data can be displayed as tables or charts. Both tables and charts can be transferred for further processing into Microsoft Word or Excel by means of the Windows clipboard.
Up to three charts can be created, and one channel can be shown on several charts at the same time. After the definition of the display parameters the table view or the chart view can be activated immediately. The table view shows additional markers indicating whether this is captured, calculated or synthetic data. Other markers are added for e.g. errors or faults.

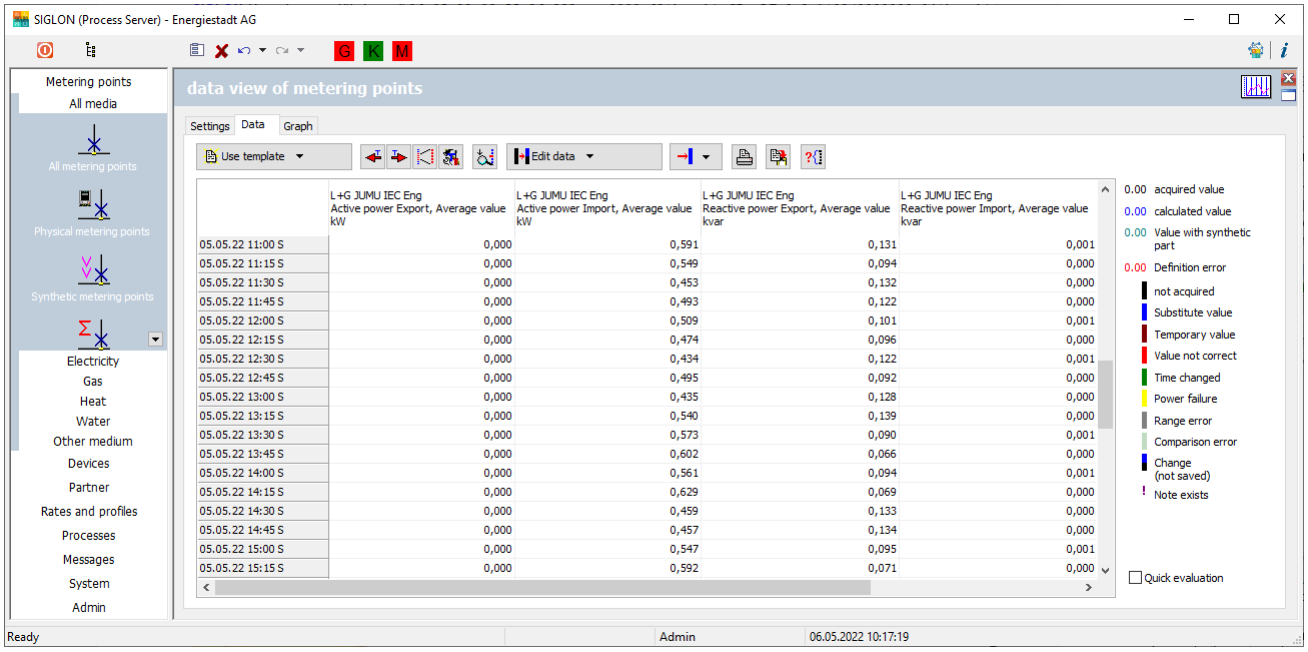


Figure 5 *Data view: Data in table view*

Simple basic functions can be executed with the “**Quick evaluation”**, e.g. totals, averages, maximum (+ time stamp), minimum (+ time stamp).

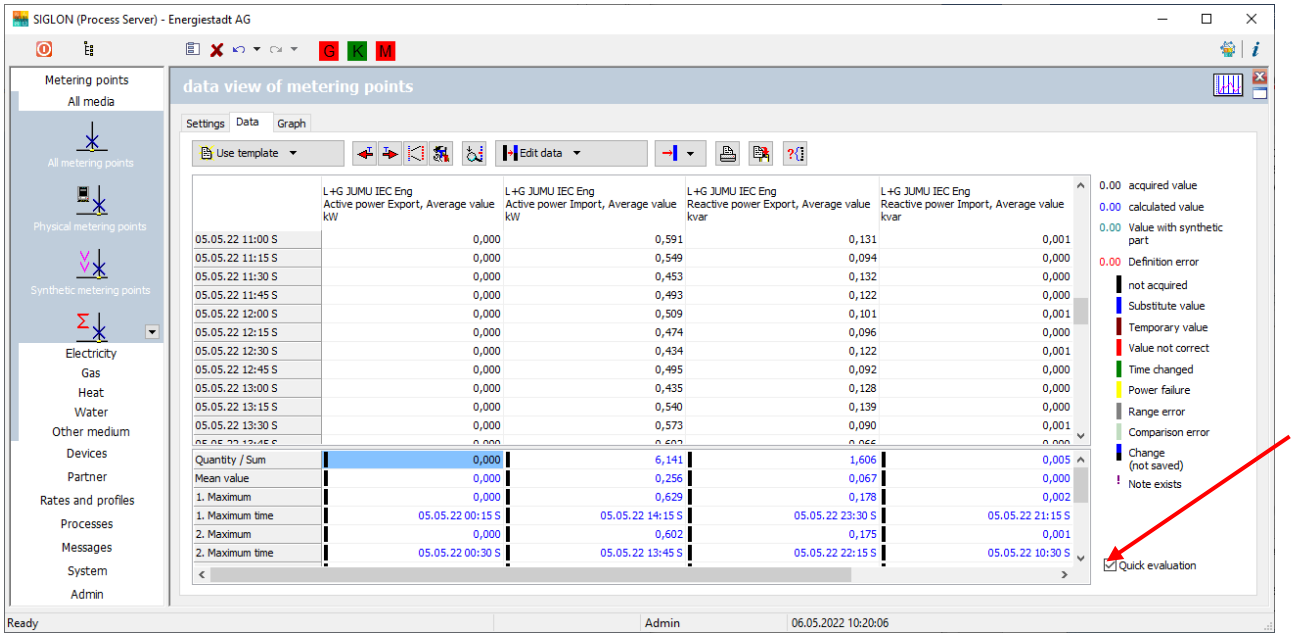


Figure 6 *Data view: Data in table form with quick evaluation activated*

Measurement data can also be manipulated in this view. The manipulated data are then used for charts, table calculations and export functions.

Depending on the definition a variety of charts can be displayed:

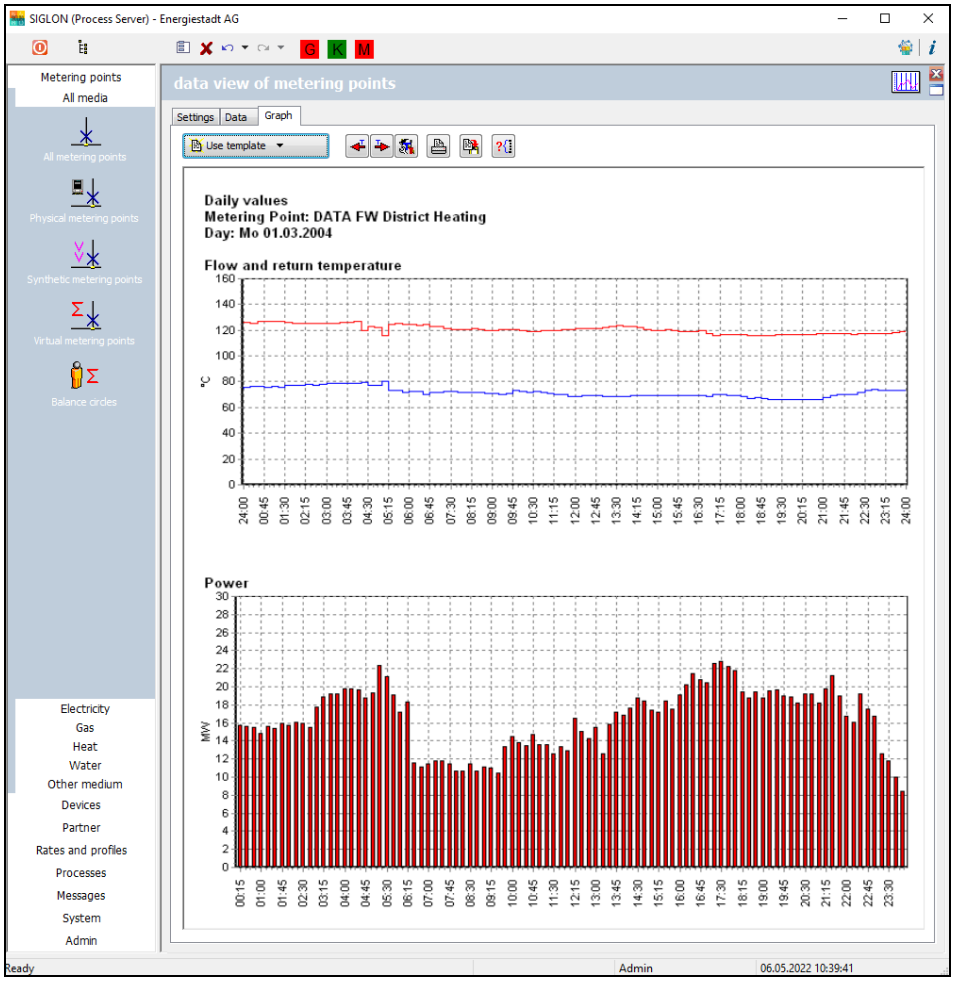


Figure 7 *Data view: Daily chart*

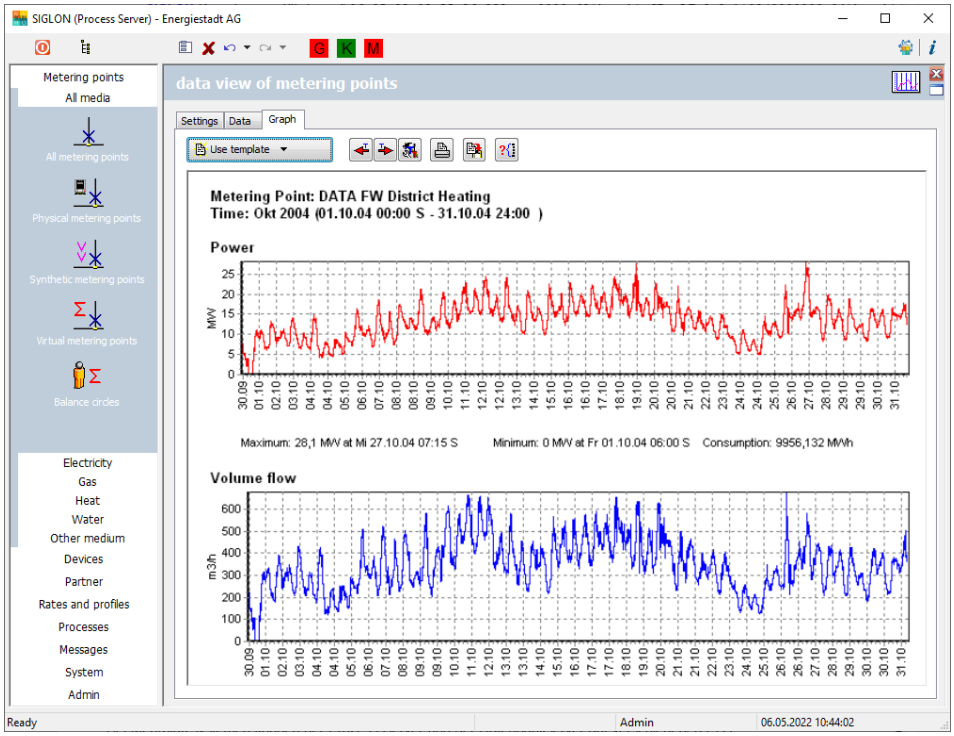


Figure 8 *Data view: Monthly chart*

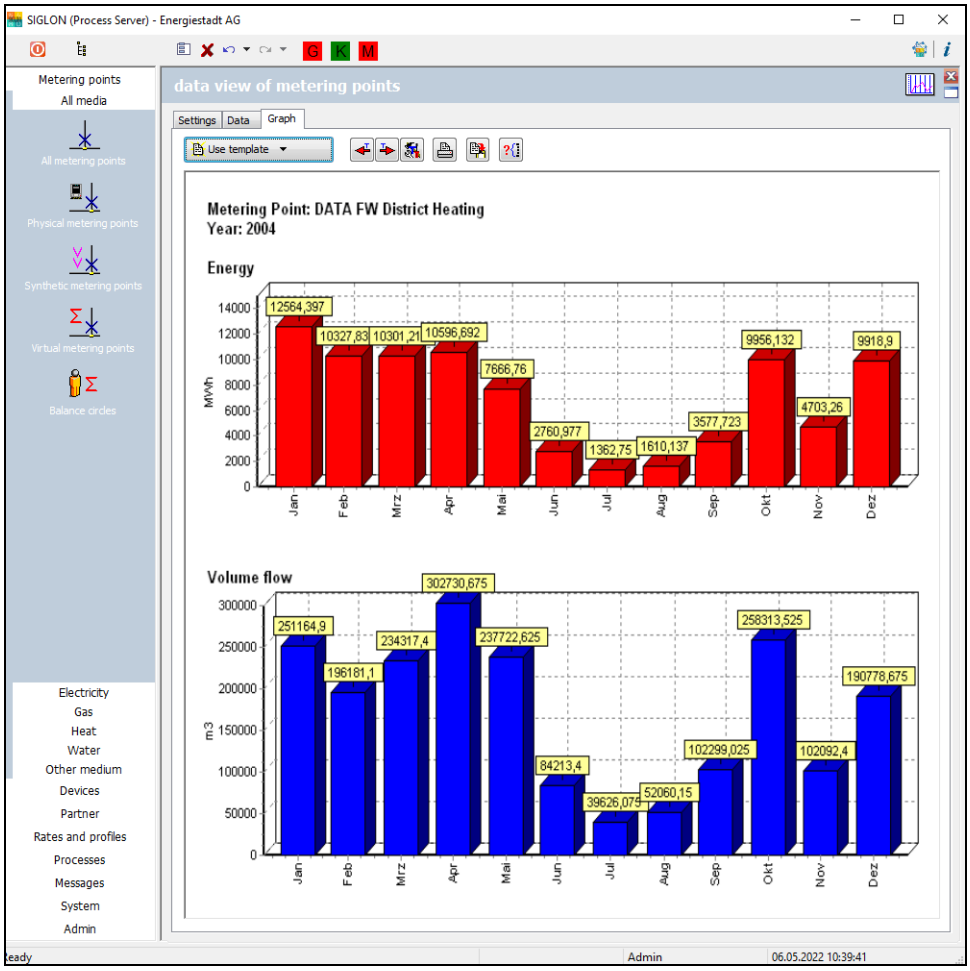


Figure 9 *Data: Annual chart of monthly values*

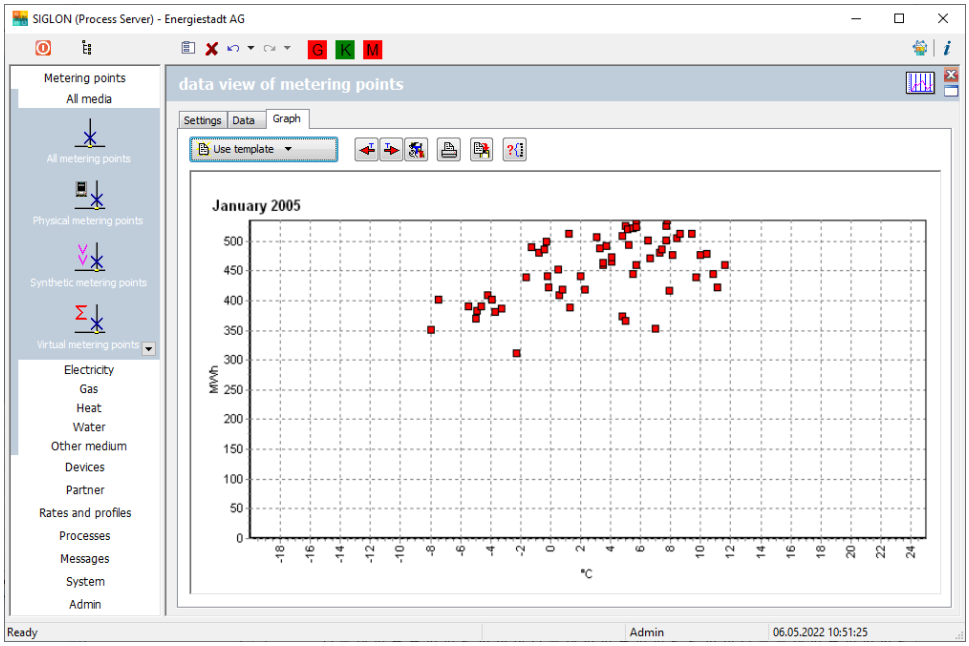


Figure 10 *Data view: monthly chart – daily consumption in correlation to outside temperature*

EEG Functionality (German Renewable Energies Act)

From **SIGLON**-Version 4 is it possible to define meter specific control commands, e.g. derating of PV power and calculation of compensation.

The menu **Operational monitoring** shows all events and status massages that were read from the system (alarms, warnings, remarks). It is possible to confirm or revoke the messages.

G K M

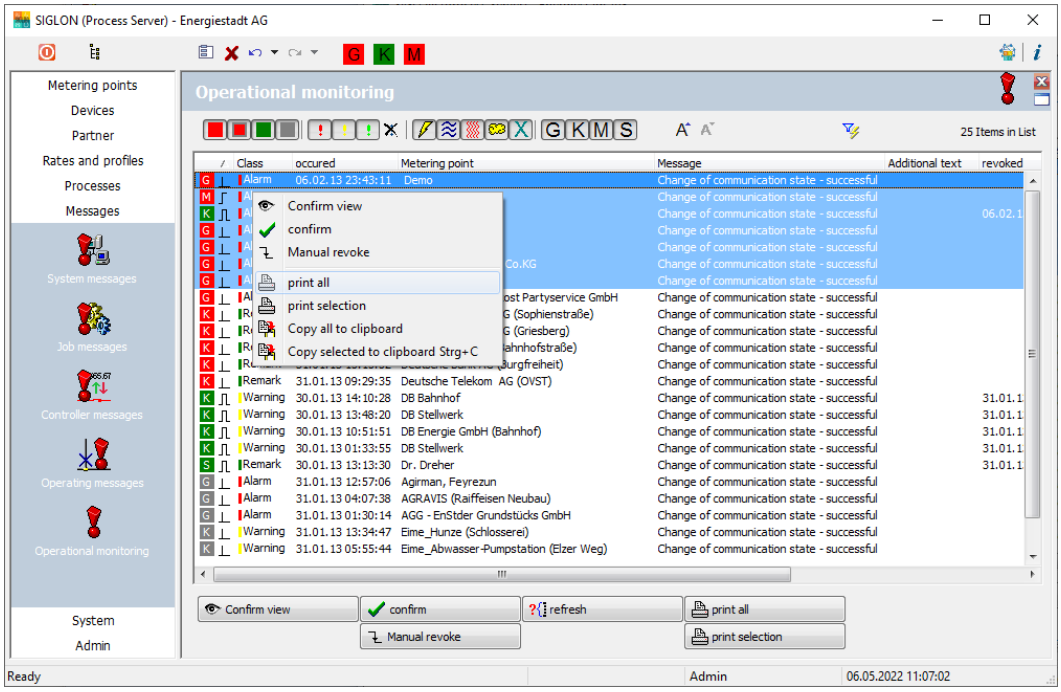


Figure 11 *Operational monitoring*

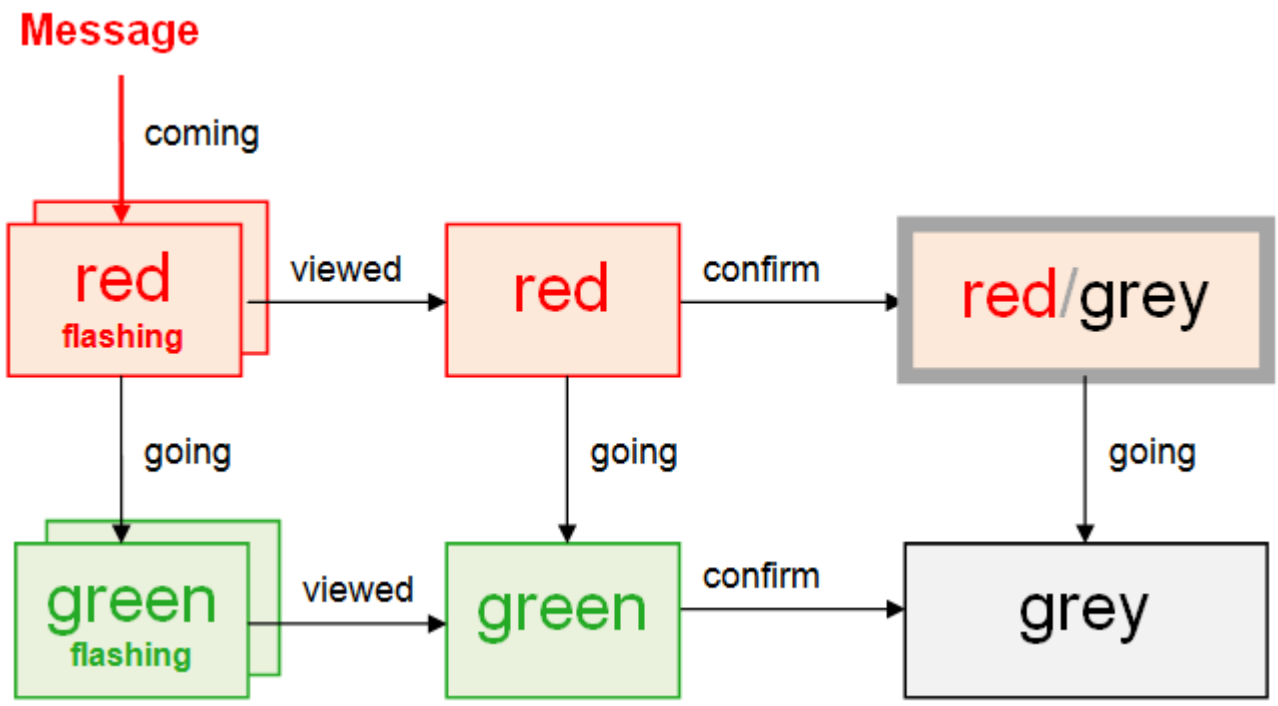


Figure 12 *Operational monitoring: possible actions*

User Specific Menus

From **SIGLON**-Version 4 is it possible to create user specific menus. It is permissible to define up to 99 submenus:

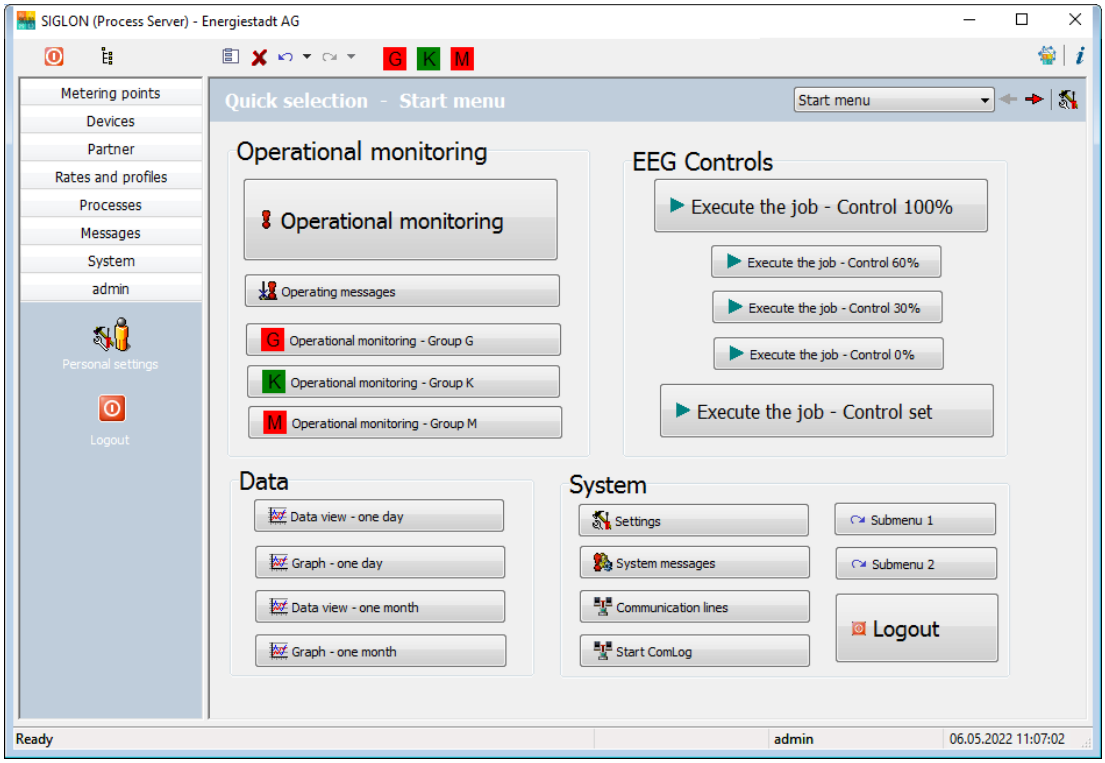


Figure 13 *Quick selection – Overview*

Remote Control

For remote control Baer uses the program **TeamViewer**. TeamViewer establishes connections to any PC or server all around the world within just a few seconds. The support engineers can remotely control your PC as if they were sitting right in front of it.

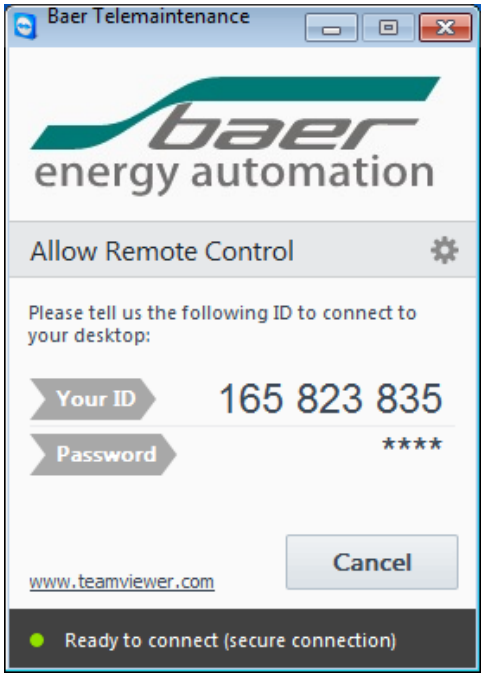


Figure 14 *Remote control*

Driver Reference

The following device drivers are available (activation via license key):

Manufacturer	Type	Variant	Medium	Protocol	Read billing data	Read profile data	Read event log	Set device time	Remote reset	Control (option)
independent	universal		All	Modbus RTU	✓	-	-	-	-	-
				Modbus ASCII	✓	-	-	-	-	-
				Modbus TCP	✓	-	-	-	-	-
independent	universal		All	M-Bus	✓	-	-	-	-	-
Baer Energy Automation	Meter2SCADA	PC	All	M2S	✓	-	✓	✓	-	-
BAER Energie & Messtechnik	DLC32		All	SCTM	✓	✓	✓	✓	-	-
	DataFW4		All	SCTM	✓	✓	✓	✓	-	-
	7FMS1/DataLog		All	SCTM	✓	✓	✓	✓	-	-
	DLX	All ≥ 1.04.00	All	SCTM	✓	✓	✓	✓	-	-
				IEC 60870-5-102	-	✓	✓	-	-	-
		≥ 1.05.00	All	ModBus RTU	✓	-	-	-	-	-
	DLM6		All	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	-
	6EA-Box		All	M-Bus	✓	✓	✓	✓	-	-
	HUT-Box		All	M-Bus	✓	-	-	✓	-	-
	M-Bus-Logger		All	M-Bus	✓	✓	-	✓	-	-
	IOMod01		All	Modbus RTU	✓	-	-	-	-	✓
	OSU		All	DLMS	-	✓	✓	✓	-	-
				VDEW2	✓	✓	✓	✓	-	-
	BFCI2/BFCI10		All	FCS	✓	-	✓	✓	-	-
	BFCM1	RS485	All	FCS	✓	-	✓	✓	-	-
	BFCR2		All	FCS	✓	-	✓	✓	-	✓
	CTRLBox EinsManBox	1, 2, 2U	All	IEC 62056-21$_{ZVEI}$	✓	✓	✓	✓	-	✓
Landis + Gyr (Landis & Gyr) (Siemens)	7E.62/3/4/5	Fw ≥ E10	E	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	-
		Fw < E10		IEC 62056-21$_{ZVEI}$	✓	✓	✓	✓	✓	-
			E	SCTM	✓	✓	-	✓	✓	-
	7FM802-804		All	IEC 62056-21$_{ZVEI}$	✓	✓	✓	✓	✓	-
	7FMS1		All	SCTM	✓	✓	✓	✓	-	-
	METCOM2/3		All	SCTM	✓	✓	✓	✓	-	-
	Z.B/METCOM2		E	SCTM	✓	✓	✓	✓	-	-
	Z.B/METCOM3		E	SCTM	✓	✓	✓	✓	-	-
	E650 (ZMD3../4..)	7E1 / 8E1	E	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	✓
				DLMS	✓	✓	✓	✓	✓	-
	E650 (ENC)	8N1	E	VDEW-FNP	✓	✓	✓	✓	✓	-
	E850 (ZQ)		E	DLMS	✓	✓	✓	✓	✓	-
	E350 (ZF)		E	DLMS	✓	✓	✓	✓	✓	-
	Elvaco CMi1012	(L+G E350)		M-Bus	✓	-	-	-	-	✓
	E35C		E	DLMS	✓	✓	✓	✓	-	✓
	E570		E	DLMS	✓	✓	✓	✓	✓	✓
	E660		Alle	DLMS inkl. HLS	✓	✓	✓	✓	✓	-
	E750 (ZK)		All	SML (SyM²)	✓	✓	✓	✓	-	-
	DATAREG 16/32		All	SCTM	✓	✓	✓	✓	-	-
	FCL / FAF		All	SCTM	✓	✓	✓	✓	-	-
	FAG12.4		All	SCTM	✓	✓	✓	✓	-	-
				IEC 60870-5-102	-	✓	✓	-	-	-
	FAG14/15		All	SCTM	✓	✓	✓	✓	-	-
	ZWVE Module		All	IEC 60870-5-102	-	✓	-	-	-	-

Manufacturer	Type	Variant	Medium	Protocol	Read billing data	Read profile data	Read event log	Set device time	Remote reset	Control (option)
	2WR4/5	M-Bus	Heat	M-Bus	✓	-	-	✓	-	-
		CL		IEC 62056-21	✓	-	-	-	-	-
		Internal modem		IEC 62056-21 (Password: data)	✓	-	-	-	-	-
Actaris (Schlumberger)	DC3	Fw < 2.20 VDEW	E	IEC 62056-21 VDEW2	✓	✓	✓	✓	✓	-
		PLC	E	IEC 62056-21	✓	✓	✓	-	-	-
		Fw ≥ 2.20 VDEW	E	IEC 62056-21 VDEW2	✓	✓	✓	✓	✓	-
	DC4		E	VDEW-FNP	✓	✓	✓	✓	✓	-
	DC3/4 (ENC)	8N1	E	IEC 62056-21	✓	✓	✓	✓	✓	-
	SL7000		All	DLMS	✓	✓	✓	✓	✓	-
	Sparklog		All	VDEW2	✓	✓	✓	✓	✓	-
	CF-Sensor, CF50, …		Heat	M-Bus	✓	-	-	-	-	-
	Corus		Gas	IEC 62056-21	✓	✓	✓	✓	-	-
ABB	ABB / SVM F2		Heat	M-Bus	✓	-	-	-	-	-
	SensyCal		Heat	M-Bus	✓	-	✓	-	-	-
Aqua Metro	Calec MB		Heat	M-Bus	✓	-	-	✓	-	-
	Calec ST		Heat	M-Bus	✓	-	-	✓	-	-
Brodersen-ABB	RTU8		All	BCSRAC	✓	✓	✓	✓	-	-
CEWE	ProMeter		E	IEC1107	✓	✓	✓	✓	✓	-
			All	DLMS	✓	✓	✓	✓	✓	-
	ProMeter 100		All	DLMS	✓	✓	✓	✓	✓	-
	Elite 440		All	ModBus RTU	✓	✓	-	✓	✓	-
Dr. Neuhaus DNT	MUC-Controller		All	SML (MUC)	✓	✓	✓	✓	-	-
DZG	MM30		E	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	-
Elgama	DLC-200		All	DLMS	✓	✓	-	-	✓	-
	G1B/G3B		E	DLMS	✓	✓	✓	✓	✓	-
Elster (ABB)	AEM500	Fw < 3.00	E	IEC 62056-21	✓	✓	✓	✓	✓	-
		Fw ≥ 3.00	E	VDEW2	✓	✓	✓	✓	✓	-
	AEM500 (ENC)	8N1	E	VDEW-FNP	✓	✓	✓	✓	✓	-
	Axxxx (A1350, A1440, A1500, A2500)		E	(/2! only A1500 and A2500)	✓	✓	✓	✓	✓	✓
	Axxxx (ENC)	8N1	E	VDEW-FNP	✓	✓	✓	✓	✓	-
	A1800		E	DLMS	✓	✓	✓	✓	-	-
Elster TETRA	EVU114		E	IEC 1107	✓	-	-	-	-	-
Elster	EK260/280	7E1 / 8N1	Gas	LIS 200	✓	✓	✓	✓	-	-
	EK280 (DLMS)		Gas	DLMS	✓	✓	✓	✓	-	-
	DL2xx (210/220/240)	7E1 / 8N1	All	LIS 200	✓	✓	✓	✓	-	-
	EK 88		Gas	LIS 100	✓	✓	-	✓	-	-
	enCore ZM1		Gas	DSfG	-	✓	✓	✓	-	-
	DS 100 A/B/E/V		All	LIS 100	✓	✓	-	✓	-	-
EMH	LZ (VDEW)		E	IEC 62056-21	✓	✓	✓	✓	✓	-
	LZ (Standard-Kombi-Meter)		E	IEC 62056-21	✓	✓	✓	✓	-	-
	LZQJ, DMTZ		All	DLMS	✓	✓	-	✓	-	-
			E	IEC 62056-21	✓	✓	✓	✓	✓	✓
	LZQJ DMTZ (ENC)	8N1	E	VDEW-FNP	✓	✓	✓	✓	✓	-
	NXT4 (VDEW)		E	IEC 62056-21	✓	✓	✓	✓	✓	-
	DIZ	Gen. G	E	M-Bus	✓	✓	-	✓	-	-
		Gen. H	E	M-Bus	✓	✓	-	✓	-	-
	MUC-Controller		All	SML (MUC)	✓	✓	✓	✓	-	✓

Manufacturer	Type	Variant	Medium	Protocol	Read billing data	Read profile data	Read event log	Set device time	Remote reset	Control (option)
	SymBA		All	SML (SyM²)	✓	✓	✓	✓	-	-
Endress+Hauser	RH33, RS33		All	CDI (TCP/IP)	✓	✓	✓	✓	-	-
FlowComp	Z1		Gas	DSfG	-	✓	-	-	-	-
FW Systeme Klein & Partner	PLC-Modem		All	IEC 62056-21 VDEW2	✓	✓	✓	-	-	-
Görlitz	ENC380(E)	PSTN	All	FNP	✓	-	-	✓	-	✓
	ENC400(E,G)	PSTN/GSM	All	FNP	✓	✓	-	✓	-	✓
	ENC400(P)	PLC	All	FNP	✓	✓	-	-	-	✓
	ENC400(PT,PG)	PLC	All	FNP	✓	-	-	✓	-	-
Hydrometer	ScampY		Water	M-Bus	✓	-	-	-	-	-
	DYlfin-E		Water	M-Bus	✓	-	-	-	-	-
	FlYpper-E		Water	M-Bus	✓	-	-	-	-	-
	IZAR Center		All	M-Bus (IZAR)	✓	✓	-	✓	-	-
Iskra	MT85		E	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	-
	MT85 (ENC)	8N1	E	VDEW-FNP	✓	✓	✓	✓	✓	-
	MT372		All	DLMS	✓	✓	✓	✓	✓	✓
	MT382		All	DLMS	✓	✓	✓	✓	✓	-
	MT880		E	DLMS inkl. HLS	✓	✓	✓	✓	✓	-
Kamstrup	Maxical III Multical		Heat	M-Bus	✓	-	-	-	-	-
	162, 282, 382	Ass.1	All	DLMS	✓	✓	✓	✓	✓	✓
	162, 382	Gen J/K/L	All	DLMS	✓	✓	✓	✓	✓	✓
	351B		E	DLMS	✓	✓	✓	✓	✓	✓
	M, 351C, Omnip.		E	DLMS	✓	✓	✓	✓	✓	✓
Köhler (TR)	Tr2		E	IEC 1107	✓	-	-	✓	-	-
L+T (India)	ER300P		E	IEC 1107	✓	✓	-	✓	-	-
Luna (TR)	LUN5		E	IEC 1107	✓	✓	-	-	-	-
Makel (TR)	T300		E	IEC 1107	✓	✓	-	-	-	-
MetCom Solutions	MCS301		E	IEC 62056-21$_{VDEW2}$	✓	✓	✓	✓	✓	-
			E	DLMS inkl. HLS	✓	✓	✓	✓	✓	-
Metra	ERW 700A		All	ModBus RTU	✓	✓	-	✓	-	-
				ModBus ASCII	✓	✓	-	✓	-	-
NZR	MUC-Controller		All	SML (MUC)	✓	✓	-	✓	-	-
	NDWH-MBus		E	M-Bus	✓	-	-	-	-	-
Power Measurement	ION 7500, ION 7600, ION 8000		All	ModBus	✓	✓	-	✓	-	-
SAE	ZFA-2, ZFA-4, ZFA-10		All	IEC 60870-5-102	-	✓	✓	-	-	-
Schneider	ION9000		E	DLMS	✓	✓	-	✓	-	-
Schweitzer Engineering Laboratories	SEL 734 SEL 735		All	ModBus RTU	✓	✓	-	✓	✓	-
				ModBus TCP	✓	✓	-	✓	✓	-
Tritschler	K902/VC2		Gas	IEC 62056-21	✓	✓	-	✓	-	-
Weidmüller	DL550		All	ModBus RTU	✓	✓	-	✓	✓	-
				ModBus TCP	✓	✓	-	✓	✓	-
RMG Messtechnik (Wieser)	MRG910		All	MRG	✓	✓	-	✓	-	-
	ERZ2200, MRG910, MRG2100D, MRG2200, MRG2201		Gas	DSfG	✓	✓	-	✓	-	-
Zenner	Multidata		Heat	M-Bus	✓	-	-	-	-	-

Note: IEC 62056-21 is alternative to IEC 61107 and IEC 1107

Export Drivers

The following export drivers are available (activation requires an additional license key):

Driver number	Format / Function
100001	DEMS database interface
100002	TRANSCO database interface
100003	Specific database interfaces
100004	Universal database interface
100010	SIGLON PowerTrend
100011	Switching Output Alerting
100051	SCHLEUPEN BASIC/CS.VA billing data interface
100101	SAP billing case (1)
100102	AlphaSet Format (SaLZa)
100103	Spectrum C Format
100104	Flat ASCII Format
100105	Landis+Gyr Text Format (DGC300/DGC2000)
100106	CSV Format
100107	SAP IS-U billing data interface (1)
100108	Frankendata EBM Format
100109	FWB-Export
100110	Wilken ENER:GY billing data
100111	Görlitz ENerGO
100112	Görlitz LpEx2
100120	MSCONS (UN/EDIFACT) load profile data 1.6b
100121	MSCONS (UN/EDIFACT) load profile data 2.0cd
100122	MSCONS (UN/EDIFACT) load profile data 2.1
100123	MSCONS (UN/EDIFACT) load profile data 2.1g3 for gas
100124	MSCONS (UN/EDIFACT) load profile data 2.1a for electricity and gas
100125	MSCONS (UN/EDIFACT) load profile data 2.1b for electricity and gas
100126	MSCONS (UN/EDIFACT) load profile data 2.1cd for electricity and gas
100127	MSCONS (UN/EDIFACT) load profile data 2.2abcdefg for electricity and gas
100128	MSCONS (UN/EDIFACT) load profile data 2.2hi for electricity and gas
100129	MSCONS (UN/EDIFACT) load profile data 2.3 / 2.3bc for electricity and gas
100130	SAP IS-U IDoc Builder
100140	MSCONS (UN/EDIFACT) load profile data 2.4a for electricity and gas
100201	EXCEL generator for synthetic load profiles
100210	EXCEL M2/M3 Evaluation
100300	KISS Format
200001	HTML report: missing data
200002	HTML report: data quality
300001	EXCEL documentation interface
300100	EXCEL universal KISS-Export
300200	Generator of temperature-dependent profiles (for gas)
300210	Forecast (Prognosis) / Replacement values / Temporary values
600001	Universal export for messages (ASCII, HTML)
700001	Universal export for counter values (ASCII, HTML)
700051	Export for counter values SCHLEUPEN BASIC/CS.VA
700110	Export for counter values Wilken ENER:GY

700127	Export for counter values MSCONS (UN/EDIFACT) 2.2abcdefghi
Driver number	**Format / Function**
700128	Export for counter values MSCONS (UN/EDIFACT) 2.3 / 2.3bc
700129	Export for counter values MSCONS (UN/EDIFACT) 2.4a
800001	DELTA Flat ASCII Format
800120	DELTA MSCONS (UN/EDIFACT) load profile data 1.6b
800122	DELTA MSCONS (UN/EDIFACT) load profile data 2.1
800123	DELTA MSCONS (UN/EDIFACT) load profile data 2.2abcdefg
800124	DELTA MSCONS (UN/EDIFACT) load profile data 2.2hi
800125	DELTA MSCONS (UN/EDIFACT) load profile data 2.3 / 2.3bc
800126	DELTA MSCONS (UN/EDIFACT) load profile data 2.4a
800200	DELTA Specific database interfaces

Import Drivers

The following import drivers are available (activation via license key)

Driver name	Format / Function
500000	Billing data
500101	MEDATEC LEDAN load profile 1
500105	DGC300 data import
500110	METERCOM profile data
500111	Communication row data
500112	RmCU (XML) data import
500120	MSCONS (UN/EDIFACT) load profile data
500500	Universal data import
500600	SIGLON Mobile Lt data import
500700	SIGLON Remote control