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SCADA

Energy meters supported by Danfoss SCADA solutions, Leanheat® Monitor and ECL Comfort 296/310

Energy meters	Leanheat® Monitor	ECL Comfort 296 / 310	ECL Portal	DECS 2.0	OPC Server
Danfoss Sonometer 1100					
Danfoss SonoSelect 10/ SonoSafe 10					
Danfoss Sonometer 30					
Danfoss Sonometer 31					
Danfoss SonoSensor 30					
Danfoss SONO 3500 CT					
Danfoss Infocal 5					
Danfoss Infocal 6					
Danfoss Infocal 8					
Danfoss Infocal 9					
ABB "Odin" OD4110					
ABB "Delta" DBM 2300					
Actaris, Allmess, Itron CF51					
Actaris, Allmess, Itron CF55					
Actaris, Allmess, Itron CF Echo II					



Supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

Blank field means 'not tested'.



Partly supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.



Not supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

Energy meter overview (continued)

Energy meters	Leanheat® Monitor	ECL Comfort 296 / 310	ECL Portal	DECS 2.0	OPC Server
Axis Industries SKS-3					
Axis Industries Enco Pulse					
Brunata HGQ					
Carlo Gavazzi EM33-DIN					
EMH Metering KIZ W1EL-KOM-11-E50/K					
Engelmann SensoStar2					
Hydrometer / Diehl Sharky 775					
Hydrometer / Diehl Hydros					
Itron Cyble v1.4					
Itron Cyble v2.0					
Kamstrup Multical 21					
Kamstrup Multical 62					
Kamstrup Multical 382					
Kamstrup Multical 401					
Kamstrup Multical 402					
Kamstrup Multical 601					
Kamstrup Multical 602					
Kamstrup Multical 801					



Supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

Blank field means 'not tested'.



Partly supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.



Not supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

Appendix to data sheets on ECL Comfort 296 / 310, ECL Portal, Leanheat® Monitor, heat meters and DECS 2.0

Energy meter overview (continued)

Energy meters	Leanheat® Monitor	ECL Comfort 296 / 310	ECL Portal	DECS 2.0	OPC Server
Kamstrup SVM F4					
Landis & Gyr 2WR5					
Landis & Gyr UltraHeat 50					
Saia ALD1D5FM					
Saia ALE3D5FM					
Sensus HRI					



Supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

Blank field means 'not tested'.



Partly supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.



Not supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.

General considerations

- As the M-bus data communication requires a certain power it is recommended to use mains powered energy meters.
- Some energy meters have an option of high energy battery (like Sonometer 1100 D-Cell) which enables frequent communication. This kind of battery powered meters can be used.
- Energy meter must not disable M-bus data communication and / or enter into battery saving mode if data is requested too frequently by the controller or SCADA software, i.e. each 60 seconds.
- Energy meters are considered to be supported when energy, volume, flow rate, power, supply and return temperature can be read by the ECL Comfort 296 / 310 / SCADA software.
- Only systems using the ECL Comfort 296 / 310 controller are evaluated.

Details on specific combinations

Danfoss Sonometer 1100

- Setup/configuration of meter may be required
- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Danfoss SonoSelect 10 / SonoSafe 10

- Setup/configuration of meter may be required
- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Danfoss Sonometer 30

- Setup/configuration of meter may be required
- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
 - * AC mains power supply required
- ECL Comfort 296 / 310 must be version 1.60 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements

Danfoss Sonometer 31

- Setup/configuration of meter may be required
- Flow/volume data only supported for meter ordered with U1/q1 input
 - * Required for support of flow/power limitation with ECL Comfort 296 / 310
 - * AC mains power supply required
- ECL Comfort 296 / 310 must be version 1.60 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements
- Ordered with U2/q2 input: Flow and volume data not supported

Danfoss Infocal 5

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Danfoss Infocal 6

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Danfoss Infocal 8

- Setup/configuration of meter may be required
- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Danfoss Infocal 9

- Setup/configuration of meter may be required
- Flow/volume data only supported for meter ordered with U1/q1 input
 - * Required for support of flow/power limitation with ECL Comfort 296 / 310
 - * AC mains power supply required
- ECL Comfort 296 / 310 must be version 1.60 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements
- Ordered with U2/q2 input: Flow and volume data not supported

ABB "Odin" OD4110

- Preliminary test results. Tests not yet completed
- Meter must not communicate with both ECL Comfort 296 / 310 and ECL Portal

Details on specific combinations (continued)**ABB “Delta” DBM 2300**

- Preliminary test results. Tests not yet completed
- Meter must not communicate with both ECL Comfort 296 / 310 and ECL Portal

Actaris, Allmess, Itron CF51

- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements

Actaris, Allmess, Itron CF55

- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements

Actaris, Allmess, Itron CF Echo II

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.46 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer
- Sample interval > 900 seconds to respect battery lifetime requirements

Axis Industries SKS-3

- Sample interval > 900 seconds to respect battery lifetime requirements

Axis Industries Enco Pulse

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.20 or newer

Brunata HGQ

- Meter must not communicate with both ECL Comfort 296 / 310 and ECL Portal

Carlo Gavazzi EM33-DIN

- No comments

EMH Metering KIZ W1EL-KOM-11-E50/K

- Meter must not communicate with both ECL Comfort 296 / 310 and ECL Portal

Engelmann SensoStar2

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Hydrometer / Diehl Sharky 775

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Hydrometer / Diehl Hydros

- ECL Comfort 296 / 310 must be version 1.40 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Itron Cyble v1.4

- No comments

Itron Cyble v2.0

- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Details on specific combinations (continued)

Kamstrup Multical 21

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 supported with limitations
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 62

- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer
- Values not supported by Multical 62 will be shown as 0 and 180, respectively

Kamstrup Multical 382

- Preliminary test results. Tests not yet completed
- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 401

- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 402

- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 601

- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 602

- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.10 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup Multical 801

- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Kamstrup SVM F4

- Preliminary test results. Tests not yet completed
- Meter must not communicate with both ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Landis & Gyr 2WR5

- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Landis & Gyr UltraHeat 50

- Supports flow/power limitation with ECL Comfort 296 / 310 and ECL Portal
- ECL Comfort 296 / 310 must be version 1.20 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Appendix to data sheets on ECL Comfort 296 / 310, ECL Portal, Leanheat® Monitor, heat meters and DECS 2.0

Details on specific combinations (continued)

Saia ALD1D5FM

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 supported with limitations
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Saia ALE3D5FM

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 supported with limitations
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer

Sensus HRI

- Setup/configuration of meter may be required
- ECL Comfort 296 / 310 supported with limitations
- ECL Comfort 296 / 310 must be version 1.42 or newer
- DECS 2.0 software must be version 2.0.25B or newer
- OPC Server software must be version 3.53.0.56 - Release 1 or newer



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Danfoss A/S

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