

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

SCADA

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

| Energy meters | Enspire® | 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 | Enspire® | 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 | | | | | |



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Energy meter overview (continued)

| Energy meters | Enspire® | 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'.



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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

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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

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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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