### SCADA

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

<table>
<thead>
<tr>
<th>Energy meters</th>
<th>Enspire®</th>
<th>ECL Comfort 296 / 310</th>
<th>ECL Portal</th>
<th>DECS 2.0</th>
<th>OPC Server</th>
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- ✔️ Supported by Danfoss SCADA solutions and/or ECL Comfort 296 / 310. Click on the icons in the table to get more information.
- ( ) 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.

Blank field means ‘not tested’.

Appendix to data sheets on ECL Comfort 296 / 310, ECL Portal, Enspire®, heat meters and DECS 2.0.
## Energy meter overview (continued)

<table>
<thead>
<tr>
<th>Energy meters</th>
<th>Enspire®</th>
<th>ECL Comfort 296 / 310</th>
<th>ECL Portal</th>
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<td>Axis Industries Enco Pulse</td>
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<td>Brunata HGQ</td>
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<td>Engelmann SensoStar2</td>
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#### 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
- 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 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

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

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**
- 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
- 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
### Details on specific combinations (continued)

<table>
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<tr>
<th>Details</th>
<th>Saia ALD1D5FM</th>
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**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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