**SCADA**

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

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<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.
- (ffield) 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’.
### Energy meter overview (continued)

<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>
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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.
- **Blank field means ‘not tested’.**
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### Energy meter overview (continued)

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<thead>
<tr>
<th>Energy meters</th>
<th>Enspire*</th>
<th>ECL Comfort 296 / 310</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.**

**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 1.60 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
- AC mains power supply required
- 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
- ECL Comfort 296 / 310 must be version 1.60 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
- * Required for support of flow/power limitation with ECL Comfort 296 / 310
- * AC mains power supply required
- 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
- ECL Comfort 296 / 310 must be version 1.60 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
- * AC mains power supply required
- 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)

<table>
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<tr>
<th>Device Type</th>
<th>Details</th>
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</table>
| **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
### Details on specific combinations (continued)

<table>
<thead>
<tr>
<th>Combination</th>
<th>Setup/configuration of meter may be required</th>
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<td>Saia ALD1D5FM</td>
<td>- ECL Comfort 296 / 310 supported with limitations</td>
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<td>- ECL Comfort 296 / 310 must be version 1.42 or newer</td>
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<td>- DECS 2.0 software must be version 2.0.25B or newer</td>
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<td>- OPC Server software must be version 3.53.0.56 - Release 1 or newer</td>
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</table>

#### 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