
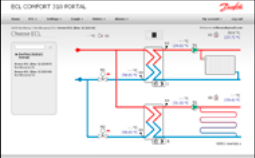
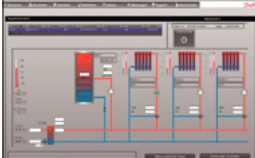
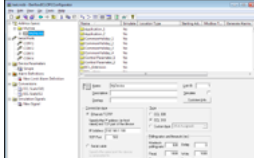


Appendix to data sheets on ECL Comfort 310, ECL Portal, heat meters and DECS 2.0

# SCADA

## Energy meters supported by Danfoss SCADA solutions and ECL Comfort 310

Energy meters	ECL Comfort 310	ECL Portal	DECS 2.0	OPC Server
				
Danfoss Sonometer 1100				
Danfoss Infocal 5				
Danfoss Infocal 6				
Danfoss Infocal 8				
ABB "Odin" OD4110				
ABB "Delta" DBM 2300				
Actaris, Allmess, Itron CF51				
Actaris, Allmess, Itron CF55				
Actaris, Allmess, Itron CF Echo II				
Axis Industries SKS-3				
Brunata HGQ				
Carlo Gavazzi EM33-DIN				
EMH Metering KIZ W1EL-KOM-11-E50/K				
Engelmann SensoStar2				
Hydrometer Sharky 775				
Hydrometer Hydros				
Itron Cyble v1.4				




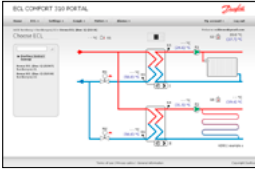

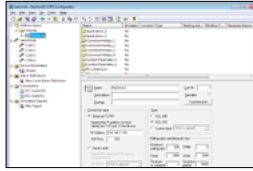
Supported by Danfoss SCADA solutions and/or ECL Comfort 310. Click on the icons in the table to get more information.



Blank field means 'not tested'.



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

Energy meter overview (continued)

Energy meters	ECL Comfort 310	ECL Portal	DECS 2.0	OPC Server
				
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				
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 310. Click on the icons in the table to get more information.
  -  Not supported by Danfoss SCADA solutions and/or ECL Comfort 310. Click on the icons in the table to get more information.
- Blank field means 'not tested'.

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 310 / SCADA software.
- Only systems using the ECL Comfort 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 310 and ECL Portal
- ECL Comfort 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 Infocal 5**

- Setup/configuration of meter may be required
- ECL Comfort 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 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 310 and ECL Portal
- ECL Comfort 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

**ABB "Odin" OD4110**

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

**ABB "Delta" DBM 2300**

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

**Actaris, Allmess, Itron CF51**

- ECL Comfort 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 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 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

**Details on specific combinations (continued)****Axis Industries SKS-3**

- Sample interval > 900 seconds to respect battery lifetime requirements

**Brunata HGQ**

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

**Engelmann SensoStar2**

- Setup/configuration of meter may be required
- ECL Comfort 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 Sharky 775**

- Setup/configuration of meter may be required
- ECL Comfort 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 Hydros**

- ECL Comfort 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 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 21**

- Setup/configuration of meter may be required
- ECL Comfort 310 supported with limitations
- ECL Comfort 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 310 and ECL Portal
- ECL Comfort 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

**Details on specific combinations (continued)****Kamstrup Multical 382**

- Preliminary test results. Tests not yet completed
- Setup/configuration of meter may be required
- ECL Comfort 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 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 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 310 and ECL Portal
- ECL Comfort 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 310 and ECL Portal
- ECL Comfort 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 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 310 and ECL Portal
- ECL Comfort 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 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 310 and ECL Portal
- ECL Comfort 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)****Saia ALD1D5FM**

- Setup/configuration of meter may be required
- ECL Comfort 310 supported with limitations
- ECL Comfort 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 310 supported with limitations
- ECL Comfort 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 310 supported with limitations
- ECL Comfort 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



