

# Energy Meter

| Template Category                    | <b>Electrical Energy Meter</b>                |   |            |  |
|--------------------------------------|---|---|------------|--|
| Template Version                     | c   |   |            |  |
| Category Description                 | Device for measuring quantity of energy use   |   |            |  |
| Classification System                |   |   |            |  |
| Classification                       | Three-phase CT energy meter with S0 interface |   |            |  |
| Suitability for Use                  | Consultation - draft use only                 |   |            |  |
| Template Custodian                   | CIBSE   |   |            |  |
| Information Category                 | Parameter Name                                | Value   | Units      | Notes  |
| <b>Manufacturer Data</b>             |   |   |            |  |
| Specifications                       | Manufacturer                                  | Saia-Burgess Controls AG  | Text       |  |
| Specifications                       | Manufacturer Website                          | <a href="http://www.saia-pcd.com">http://www.saia-pcd.com</a>   | URL        |  |
| Specifications                       | Product Range                                 | Energy meters   | Text       |  |
| Specifications                       | Product Model Number                          | AWD3B5W10MC2A00   | Text       | Or Code  |
| Specifications                       | CE Approval                                   | Yes   | Text       | Number, Yes, No  |
| Specifications                       | Product Literature                            | <a href="http://www.sbc-support.com">http://www.sbc-support.com</a>   | URL        |  |
| Specifications                       | Features                                      | Three-phase energy meter with LCD display, S0 interface, I <sub>max</sub> = 6 A (through a current transformer up to 1500 A), bidirectional, display of active power, voltage and current | Text       | Free text to describe product                                      |
| <b>Construction Data</b>             |   |   |            |  |
| Specifications                       | Type  | Plastic encased electronic device   | Text       | This is a COBie field, other fields will be required in final PDTs |
| Specifications                       | Mounting                                      | 35 mm DIN hat rail  | Text       | This is a COBie field, other fields will be required in final PDTs |
| Specifications                       | Shape   | Rectangle   | Text       | This is a COBie field, other fields will be required in final PDTs |
| Specifications                       | Material                                      | Housing lower part: Anjalon PC-J-150 GF30<br>Housing upper part: Lexan 940A-215155  | Text       | This is a COBie field, other fields will be required in final PDTs |
| Specifications                       | Colour  | Housing lower part: Light grey<br>Housing upper part: blue transparent  | Text       | This is a COBie field, other fields will be required in final PDTs |
| Specifications                       | Finish  | Matt  | Text       | This is a COBie field, other fields will be required in final PDTs |
| <b>Application</b>                   |   |   |            |  |
| Specifications                       | Read out type                                 | digital   | Text       |  |
| Specifications                       | Remote reading                                | Y   | Y/N        |  |
| Specifications                       | Reference Standard                            | EN50470-3, IEC62053-21  | Text       |  |
| Specifications                       | Certifications                                | -   | Text       | European Union's Measurement Instrument Directive (MID)            |
| Specifications                       | Measurement type                              | Indirect, bidirectional   | Text       |  |
| Specifications                       | Interface for remote reading                  | S0 interface  | Text       |  |
| <b>Dimensional Data</b>              |   |   |            |  |
| Specifications                       | Overall Length                                |   | 82.00 mm   | Or Diameter. Minimum and maximum lengths available                 |
| Specifications                       | Overall Width                                 |   | 70.00 mm   | Minimum and maximum widths available                               |
| Specifications                       | Overall Height                                |   | 62.00 mm   | Minimum and maximum heights available                              |
| Specifications                       | Gross Weight                                  |   | 0.21 kg    | Equates to Operating Weight  |
| Specifications                       | Shipping Weight                               |   | 0.23 kg    | Equates to dry weight of unit plus packaging allowance             |
| Specifications                       | Access Clearance Top                          |   | 20.00 mm   | Access required for maintenance of this item                       |
| Specifications                       | Access Clearance Bottom                       |   | 20.00 mm   | Access required for maintenance of this item                       |
| Specifications                       | Access Clearance Left                         |   | 0.00 mm    | Access required for maintenance of this item                       |
| Specifications                       | Access Clearance Right                        |   | 0.00 mm    | Access required for maintenance of this item                       |
| Specifications                       | Access Clearance Front                        |   | 0.00 mm    | Access required for maintenance of this item                       |
| Specifications                       | Access Clearance Rear                         |   | 0.00 mm    | Access required for maintenance of this item                       |
| <b>Performance Data</b>              |   |   |            |  |
| Specifications                       | Reference Current                             |   | 5 A        |  |
| Specifications                       | Minimum Current                               |   | 0.05 A     |  |
| Specifications                       | Maximum Current                               |   | 6 A        |  |
| Specifications                       | Accuracy                                      | 1   | Percentage | Class B = 1%   |
| Specifications                       | Ambient Operation Limits Temperature          | -25...+55 °C  | Degrees C  | To be entered as a range value. i.e. -10,+40                       |
| Specifications                       | Ambient Operating Limits Humidity             | 5...75% r.H.  | Percentage | To be entered as a range value. i.e. 0.90                          |
| <b>Electrical Data (if required)</b> |   |   |            |  |
| Specifications                       | Battery Supply                                | N   | Y/N        |  |
| Specifications                       | Battery Type                                  | N/A   | Text       | e.g. Alkaline, Lithium Ion Rechargeable                            |
| Specifications                       | Incoming Supply Electrical Voltage            | 230   | Volts      |  |
| Specifications                       | Incoming Supply Phase                         | 3   | Number     | 1,3  |
| Specifications                       | Incoming Supply Electrical Frequency          | 50 Hz   | Hertz      | eg. N/A, DC, 50,60, Other, UserDefined                             |
| Specifications                       | Enclosure Rating                              | IP51  | Text       | IP rating  |
| Specifications                       | Maximum Power Consumption                     | 0.4   | VA         |  |
| Specifications                       | Connection Size - main circuit                | 16  | mm2        |  |
| Specifications                       | Connection Size - communication               | 2.5   | mm2        |  |
| <b>Controls</b>                      |   |   |            |  |
| Specifications                       | Meter range                                   | 000'000,0...9'999'999   | Text       | Counting from ... to   |
| Specifications                       | Display - digits                              | 7   | Number     | Count of digits  |
| Specifications                       | Display - size                                | 6   | Number     | Height   |
| Specifications                       | Pulses per kWh                                | 10  | Number     | Pulses showed at the display                                       |
| <b>Sustainability</b>                |   |   |            |  |
| Sustainable Material BREEAM etc      | Embodied Carbon                               |   | kgCO2      | AWAITING INDUSTRY STANDARD   |
| Sustainable Material BREEAM etc      | Life Cycle Analysis                           |   | Number     | AWAITING INDUSTRY STANDARD   |
| Sustainable Material BREEAM etc      | Location of Manufacturer                      | 46° 55' 31.28" North, 7° 6' 51.53" East   | GridRef    | AWAITING INDUSTRY STANDARD   |
| Sustainable Material BREEAM etc      | Green Guide for Specification                 |   | Text       | AWAITING INDUSTRY STANDARD   |
| Sustainable Material BREEAM etc      | Environmental Product Declaration             |   | Text       | 3rd Party Verification or Self Verification with URL to document   |
| Sustainable Material BREEAM etc      | Responsible Sourcing of Materials             |   | Text       | AWAITING INDUSTRY STANDARD   |
| Sustainable Material ETL             | Energy Technology List                        |   | URL        | Hyperlink to ETL webpage for product or N/A                        |
| Sustainable Material LEED v.4        | Responsible Extraction of Materials           |   | Text       | AWAITING INDUSTRY STANDARD   |
| Sustainable Material LEED v.4        | Material Ingredient Reporting                 |   | Text       | AWAITING INDUSTRY STANDARD   |
| Sustainable Material BREEAM etc      | RoHS compliant                                |   | Y/N        |  |
| Sustainable Material BREEAM etc      | WEE compliant                                 |   | Y/N        |  |
| <b>Operations &amp; Maintenance</b>  |   |   |            |  |
| Facilities/Asset Management          | O&M Manual                                    | <a href="https://www.sbc-support.com">https://www.sbc-support.com</a>   | URL        | Hyperlink to Manufacturer O&M Data                                 |
| Facilities/Asset Management          | Daily   | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Weekly  | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Monthly                                       | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Quarterly                                     | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | 6 Monthly                                     | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Annually                                      | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Bespoke Timeframe                             | n/a   | Text       | Maintenance tasks or SFG2012 codes                                 |
| Facilities/Asset Management          | Maintenance Required 0-300hrs                 | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 301-600hrs               | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 601-1000hrs              | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 1001-2000hrs             | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 2001-4000hrs             | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 4001-8000hrs             | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Maintenance Required 8001-12000hrs            | n/a   | Text       | Maintenance tasks required during this time frame                  |
| Facilities/Asset Management          | Expected Life                                 |   | Years      |  |
| Facilities/Asset Management          | Warranty ID                                   | 2 Year from invoice date, max. 30 month from date code.   | Text       |  |

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