

Energy Meter

Template Category	Electrical Energy Meter			
Template Version	d			
Category Description	Three-phase energy meter with M-Bus			
Classification System				
Classification	Three-phase energy meter with Modbus interface parity 8N1			
Suitability for Use	Consultation - draft use only			
Template Custodian	CIBSE			
Information Category	Parameter Name	Value	Units	Notes
Manufacturer Data				
Specifications	Manufacturer	Saia-Burgess Controls AG	Text	
Specifications	Manufacturer Website	http://www.saia-pcd.com	URL	
Specifications	Product Range	Energy meters	Text	
Specifications	Product Model Number	ALE3D5FM10C3A00	Text	Or Code
Specifications	CE Approval	Yes	Text	Number, Yes, No
Specifications	Product Literature	http://www.sbc-support.com	URL	
Specifications	Features	Three-phase energy meter with LC display M-Bus interface, - I _{max} = 65 A, - 2 tariffs display of active power, voltage and current - according to MID directive	Text	Free text to describe product
Construction Data				
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 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 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
Application				
Specifications	Read out type	digital	Text	
Specifications	Remote reading	Y	Y/N	
Specifications	Reference Standard	EN50470-3, IEC62053-21	Text	
Specifications	Certifications	MID	Text	European Union's Measurement Instrument Directive (MID)
Specifications	Measurement type	Direct, unidirectional	Text	
Specifications	Interface for remote reading	M-Bus	Text	
Dimensional Data				
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
Performance Data				
Specifications	Reference Current	10	A	
Specifications	Minimum Current	0.04	A	
Specifications	Maximum Current	65	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
Electrical Data (if required)				
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	mm ²	
Specifications	Connection Size - communication	2.5	mm ²	
Controls				
Specifications	Meter range	00'000,00...99'999,99 100'000,0...999'999,9	Text	Counting from ... to
Specifications	Display - digits	7	Number	Count of digits
Specifications	Display - size	6	Number	Height
Specifications	Pulses per kWh	1000	Number	Pulses showed at the display
Sustainability				
Sustainable Material BREEAM etc	Embodied Carbon		kgCO ₂	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	
Operations & Maintenance				
Facilities/Asset Management	O&M Manual	https://www.sbc-support.com	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	

This spreadsheet is the property of CIBSE although it can be freely used in the ways described, and completed with data specific to particular products.