

Gap Analysis

* As required

Requirement	CoPs			SMETS v2	
	8	9	10		
Accuracy	±2.0	±2.0	MID (for < 100kW)	MID	
Measured Quantities	Import kWh	Import kWh	Import kWh*	Active Energy Imported	Cumulative
	N/A	Export kWh	Export kWh*	Active Energy Exported	Cumulative
	N/A	N/A	Import kvarh*	Reactive Energy Imported	Cumulative
	N/A	N/A	Export kvarh*	Reactive Energy Exported	Cumulative
Data HH	N/A	N/A	Import kW* 20 Days	Consumption	13 months of Consumption
	N/A	N/A	Export kW* 20 Days	Active Energy Exported	3 months of Active Energy Exported
	N/A	N/A	Import kvar 20 Days	Reactive Energy Imported	3 months of Reactive Energy Imported
	N/A	N/A	Export kvar 20 Days	Reactive Energy Exported	3 months of Reactive Energy Exported
Clock	N/A	N/A	± 20 seconds of UTC (after 20 days without power)	within 10 seconds of UTC	(Sync with UTC via a command)
Display	Measured Quantity	Measured Quantities	Measured Quantities	Assumed	
	N/A	N/A	Date and Time	Assumed	
	N/A	N/A	CT ratio where applicable		
	N/A	N/A	MD kW*	MD Import	
	N/A	N/A	MD kVA*	MD Export	
	N/A	N/A	cumulative MD*		
	N/A	N/A	number of MD resets*		
	N/A	N/A	minimum of 8 rates selectable over the calendar year*	Tariff TOU Register Matrix	1 x 8 Matrix
	N/A	N/A	N/A	Tariff TOU Block Register Matrix	4 x 8 Matrix
	N/A	N/A	N/A	Tariff Block Counter Matrix	
	N/A	N/A	N/A	Customer Identification Number	
	N/A	N/A	N/A	whether Emergency Credit is available for activation	
	N/A	N/A	N/A	whether Supply Disabling suspended	
	N/A	N/A	N/A	Payment Mode	
	N/A	N/A	N/A	Emergency Credit Balance*	
	N/A	N/A	N/A	low credit condition*	
	N/A	N/A	N/A	Supply State	
	N/A	N/A	N/A	time-based debts*	
	N/A	N/A	N/A	Time-based Debt Recovery rates*	
	N/A	N/A	N/A	payment-based debt*	
N/A	N/A	N/A	Accumulated Debt Register*		
N/A	N/A	N/A	Standing Charge		
N/A	N/A	N/A	MPAN		
N/A	N/A	N/A	UTC	Local Time	
N/A	N/A	N/A	N/A	Contact Details	
N/A	N/A	N/A	N/A	Active Tariff Price	
Security	N/A	N/A	reverse running*		
	N/A	N/A	3 Levels of Passwords	Keys and Certificates	Assumption These requirements exceed those of CoP 10
Alarms	N/A	N/A	Phase failure (any combination)	Supply outage reporting phase [n]	Supply outage reporting
	N/A	N/A	Metering Equipment resets		
	N/A	N/A	Battery		
	N/A	N/A	interrogation port access which changes time and/or date; Demand Period(s) which have been truncated or extended by a time synchronisation		
	N/A	N/A	interrogation port access which changes data other than time and/or date		
	N/A	N/A	reverse Running (where applicable)		
	N/A	N/A	Metering Equipment functionality errors		
	N/A	N/A	alarms shall reset automatically when the abnormal condition has been cleared	Note: Event alarm states are logged both on and off conditions	
	N/A	N/A	Time Sync alarm		
	N/A	N/A			
Communications	N/A	N/A	Local Port	Han Interface	Zigbee/COSEM
	N/A	N/A	Remote Port (with error checking) & sealed	Note: the ESME uses the HAN interface for remote and local comms	
Outstation	N/A	N/A	N/A	Load Limiting	
	N/A	N/A	N/A	Load Switch	
	N/A	N/A	N/A	User Interface, including a Keypad	
	N/A	N/A	N/A	Power Threshold	
	N/A	N/A	N/A	Secure Perimeter	
	N/A	N/A	N/A	Breach Detection	where reasonably practicable: generating an entry to that effect in the Security Log sending an Alert to that effect via its HAN Interface Disabling the Supply, in circumstances where the Supply Tamper State is configured to require Disabling.
	N/A	N/A	N/A	Switching Auxiliary Loads (via the HAN Interface)	
	N/A	N/A	N/A	Voltage quality measurements	
	N/A	N/A	N/A	ESME	
	N/A	N/A	N/A	Protocol Approval by the BSC Panel	
	N/A	N/A	N/A	Outstation ID to accompany Data into Settlements	
	N/A	N/A	N/A	Shall be fused if separate from the Mtr	
	N/A	N/A	N/A	Comms device fused	Han Interface
	N/A	N/A	N/A	Each demand value is to be time and date stamped	Half hour profile data Time stamp
	N/A	N/A	N/A	48 periods per day for 20 days min	3 or 13 Months
N/A	N/A	N/A	Resolution = 0.1% of Metered volumes		
N/A	N/A	N/A	Energy not stored in a demand period is to be carried forward to the next		
N/A	N/A	N/A	Clock to be maintained for 20 days without power		
N/A	N/A	N/A	Any read operation shall not alter or deleted data		
N/A	N/A	N/A	UTC only (no BST switching)	Local Time	
N/A	N/A	N/A	Demand period within ±20 secs of UTC after 20 days no time sync		
N/A	N/A	N/A	Demand periods within ±0.1%		
			3 Phase meters are to be capable of netting Imports with Exports	Not allowed in Settlement	

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