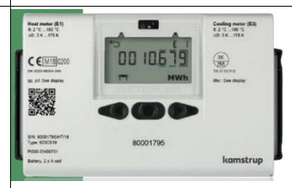
Mayford Estate

Architect:
Issue Status: D2 – TENDER

Table 1 **Heat Metering Equipment**

REF	IMAGE	APPLICATION	NOTES / SPECIFICATION
HM1		Residential Heat meter factory fitted to HIU	230V power supply with battery backup 2 M-Bus outputs Connects to site wide AMR and dwelling HIU control system Flow sensor to be line size. 3no. temperature measurement points: secondary flow, secondary return, primary return. Meter shall calculate, store and output volume weighted average return temperature.
HM2		Network Heat meter. Installed at the base of HIU risers or per Block and across all heat generating items of plant	Provide mains powered unit along with accessories to collect and collate all meter readings. 230V power supply with battery backup 2 M-Bus outputs Connects to site wide AMR Flow sensor to be line size. When installed adjacent to plate heat exchanger: 3no. temperature measurement points: secondary flow, secondary return, primary return. When installed on network branch: 2no. temperature measurement points: network branch flow, network branch return. Meter shall calculate, store and output volume weighted average return temperature. Provide with manufacturers' insulation jackets. Provide with manufacturers' meter reading software to collate all meter readings. The network heat meters are independent from the dwelling billing meters and are to be provided as completely separate systems.
M-Bus Data Logger		M-Bus data logger	Supply M-Bus data loggers to collect meter data from all site wide meters.

Meter Schedule
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REF	IMAGE	APPLICATION	NOTES / SPECIFICATION
M-Bus Converter		M-Bus Converter	
IP convert		Connects between the M-Bus data loggers to connect meter system to IP Network	IP from the Nport using high speed internet broadband line
Software		ModBus network HIU remote commissioning	A front end platform that is accessible remotely to allow the remote commissioning of HIUs. Provide: - web based server and data storage; - web based access to data; - 3no. concurrent based users to include current Windows OS; - all data storage, access, licensing and maintenance for 15 years; - cost break down of the above. Refer to Spec-100 section Ss_75-70-54-10 for additional information.

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REF	IMAGE	APPLICATION	NOTES / SPECIFICATION
Software		Heat network data analytics software – head end remote login.	Installation to allow analytics of site wide heat network. To gather data from the following: HIU heat meters; Electronic HIU (input/output to allow parameter adjustment); Network heat meters; Central plant heat meters; Central plant electricity meters; Trend BMS. To allow real time heat network KPI monitoring. To allow record graph production of KPIs. To provide alarm alert function. To allow remote adjustment of HIU parameters to allow remote commissioning.
Software		Gateway to the Camden Billing System.	Refer to the Camden Heat Metering Specification Version 3, March 2019 including the specific appendices: i. Connectivity Specification ii. Data Format Specification

Notes

1. Refer to all other Max Fordham LLP drawings, schedules and specifications.
2. Software current at time of order should be installed.

Rev	Date	Status	Description	Engineer	Project Leader
P05	26/08/22	D2	TENDER	EO	DL
P04	08/07/21	D2	TENDER	EO	DL
P03	07/06/21	S2	For Information	EO	DL
P02	19/04/21	S2	For Information	EO	DL
P01	15/02/21	S2	Draft For Information	EO	DL

Meter Schedule
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