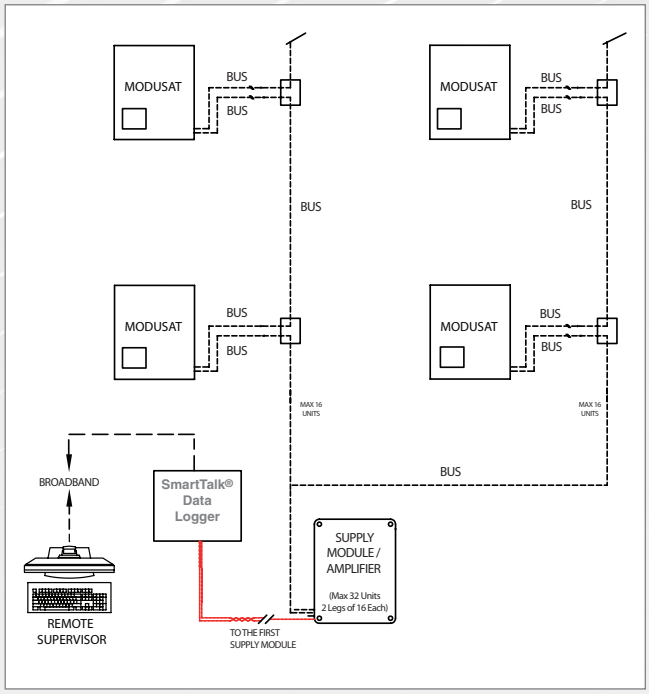
Communication Networks
For ModuSat® Systems

BUS or Ethernet Metering Networks

Our experience of communal heating has shown that reading energy meter's remotely is the most straightforward and efficient way of gathering accurate readings. As standard we provide BUS or Ethernet network solutions, which offer the ability to read meters remotely via broadband communication.

BUS Network

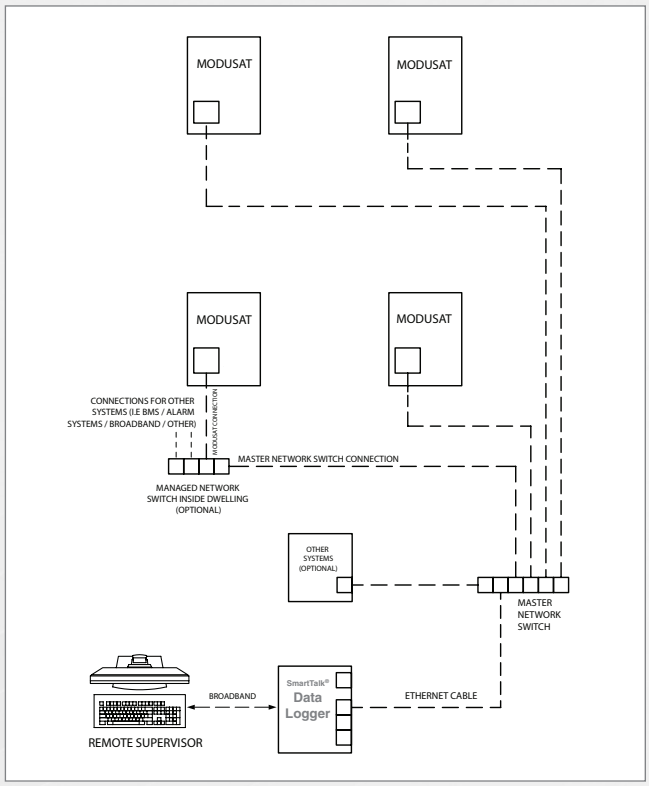
- Hard-wired BUS (RS485) data cabling network around building / scheme.
- Meters read remotely via Broadband communication system.
- Meter is wired to BUS data cabling system and data is fed to the SmartTalk® Data Logger.
- SmartTalk® Data Logger collates meter information and sends data to remote monitoring office and vice versa allowing communication back and forth.
- Lower running costs compared to a GPRS network.



Example of a Bus Metering Network

Ethernet Network TCP/IP

- Hard-wired Ethernet TCP/IP data cabling network around building / scheme.
- Meters read remotely via Broadband communication system.
- Removes the requirement for a Bus network or any amplifiers.
- Large data transfer in a short period of time
- Particularly simple solution for schemes that feature an existing ethernet network.
- TCP/IP data network provides real time data modelling. For example this may include:
  - System diversity modelling
  - Energy usage modelling
- Simplified installation and reduced costs as network can be shared with other systems, such as BMS, alarm systems, broadband and others.



Example of an Ethernet TCP/IP Metering Network

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Typical System Wiring Architecture