








Integrated Submetering    

# M-Bus Vs Pulse: Take The Guesswork Out of Metering

Create greater value and less work when installing an M-Bus system from QMC

Start your project off on the right foot: Choosing to implement M-Bus meters in your project during the design phase can save headaches down the road. Find out why you should be using M-Bus meters in your future designs.





	Key Benefits of M-Bus	Key Risks of Pulse 
<b>Water Meters</b> 	<ul style="list-style-type: none"> <li>No data loss and guaranteed security of billing data</li> <li>No Service Life Restriction</li> <li>Plug and Play with easy troubleshooting</li> <li>Tamperproof</li> </ul> 	<ul style="list-style-type: none"> <li>All data lost without power</li> <li>Increases in equipment cost due to pulse collection</li> <li>No remote troubleshooting</li> <li>Not tamperproof</li> </ul>
<b>Thermal Meters</b> 	<ul style="list-style-type: none"> <li>Power supplied through M-Bus, eliminating the need for batteries</li> <li>No data loss and guaranteed security of billing data</li> <li>Tamperproof</li> </ul> 	<ul style="list-style-type: none"> <li>No ability to troubleshoot offsite</li> <li>Data compromised without power</li> <li>Forced manual verification and commissioning</li> <li>Susceptible to human error</li> <li>Not Tamperproof</li> </ul>
<b>General Differences</b>	<ul style="list-style-type: none"> <li>90% reduction in commission time</li> <li>Labelling of wires not required</li> <li>Error and alarm features on all meters</li> <li>75% cost savings in wire, conduit, and installation labor</li> </ul>	<ul style="list-style-type: none"> <li>Labor intensive commission time</li> <li>Labeling of all pulse wires required</li> <li>No alarm features</li> <li>75% cost increase in wire, conduit, and installation labor</li> </ul>



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## Available Meter Data

	For M-Bus	For Pulse
<b>Water Meters</b> 	<ul style="list-style-type: none"> <li>• Meter serial number</li> <li>• Exact register read to 1 litre resolution</li> </ul>	<ul style="list-style-type: none"> <li>• All data lost without power</li> <li>• Increases in equipment cost due to pulse collection</li> <li>• No remote troubleshooting</li> <li>• Not tamperproof</li> </ul>
<b>Thermal Meters</b> 	<ul style="list-style-type: none"> <li>• Non-proprietary, open protocol, Measurement Canada Approved</li> <li>• 14 total registers at every read</li> </ul> <div> <ul style="list-style-type: none"> <li>• Meter serial number</li> <li>• Heating Energy</li> <li>• Cooling energy</li> <li>• Volume</li> <li>• Flow rate</li> <li>• Supply temperature</li> <li>• Return temperature</li> </ul> <ul style="list-style-type: none"> <li>• Delta temperature</li> <li>• Power</li> <li>• Reading time</li> <li>• Operating time</li> <li>• Software version</li> <li>• Firmware version</li> <li>• Error codes</li> </ul> </div>	<ul style="list-style-type: none"> <li>• Pulse signal per unit of energy</li> <li>• Pulse signal per unit of volume</li> </ul>

	M-Bus Encoded Meter Models	Meter Type	Use Case
<b>Water</b>	UnicoCoder Wired 3/4" UnicoCoder Wireless 3/4" MTK Wired/Wireless 1" - 2" MTW Wired/Wireless 1" - 2"	Domestic Water Metering Domestic Water Metering Domestic Water Metering Domestic Water Metering	Residential Residential Residential/Commercial Residential/Commercial
<b>Thermal</b>	GWF STX 789 1/2" - 3/4" GWF STX 440 1" - 10"	Heating & Cooling Heating & Cooling	Residential Residential/Industrial

Choose M-Bus Meters For Your Next Project. Contact QMC Today  
For a Consultation.



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