



Building Intelligence with Submetering Solutions    

# M-Bus versus 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 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

<p><b>Water Meters</b></p> 	<ul style="list-style-type: none"> <li>• No data loss and guaranteed security of billing data</li> <li>• Plug and Play with easy troubleshooting</li> <li>• No service life restriction</li> <li>• Tamper-proof</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 tamper-proof</li> </ul>
<p><b>Thermal Meters</b></p> 	<ul style="list-style-type: none"> <li>• Power supplied through M-Bus, eliminating need for batteries</li> <li>• No data loss and guaranteed security of billing data</li> <li>• Tamper-proof</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 tamper-proof</li> </ul>
<p><b>General Differences</b></p>	<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 labour</li> </ul>	<ul style="list-style-type: none"> <li>• Labour intensive commission time</li> <li>• Labelling of pulse wires required</li> <li>• No alarm features</li> <li>• 75% cost increase in wire, conduit and installation labour</li> </ul>

## Meter Data Available

	For M-Bus	For Pulse
<b>Water Meters</b> 	<ol style="list-style-type: none"><li>1. Meter serial number</li><li>2. Exact register read to 1 litre resolution</li></ol>	<ol style="list-style-type: none"><li>1. One "pulse" signal per unit of volume</li></ol>
<b>Thermal Meters</b> 	<ol style="list-style-type: none"><li>1. Non-proprietary, open protocol, Measurement Canada approved</li><li>2. 14 total registers at every read:<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><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></li></ol>	<ol style="list-style-type: none"><li>1. Pulse signal per unit of energy</li><li>2. Pulse signal per unit of volume</li></ol>

### Confidence with Canada's Industry Leader

QMC leads the industry in intelligent submetering solutions. We provide options to help building owners and occupants conserve energy and save money through the accurate submetering of a building's utilities: electric, water, thermal and gas. Vancouver-based with offices across Canada, QMC has over 20 years of hands-on experience in the field and working with utility meter data.

Questions? [Click here to contact one of our metering experts for more information on M-Bus metering](#)



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