CWT MiniHF - New model featuring
- A novel electrostatic shielded Rogowski coil providing excellent immunity to interference from fast local dV/dt transients or large 50/60Hz voltages
- Extended (-3dB) high frequency bandwidth 30MHz for a 100mm coil
- Peak di/dt capability up to 100kA/µs
- Wide operating temperature from -40°C to +125°C
- 4.5mm thick Rogowski coil with 5kV peak insulation.

CWT Mini - Improvements to the existing range
- Extended (-3dB) low frequency bandwidth typically less than 1Hz
- Extended (-3dB) high frequency bandwidth up to 20MHz for a 100mm coil
- Improved peak di/dt up to 40kA/µs
- 3.5mm thickness with 2kVpeak, and 4.5mm thickness with 5kVpeak insulation coils

Rogowski benefits
Both versions offer the advantages of a CWT Rogowski probe, including:
- simple to use and easy to insert into difficult to reach parts of the circuit
- practically zero insertion impedance
- freedom from flying leads
- isolated measurement
- peak-current ratings from 30A to 300kA
- ±6V into 1MΩ, and now with 50Ω drive capability
- Measuring small AC currents in the presence of large DC currents (e.g. monitoring capacitor ripple)
- Measuring current in motor drives and in particular power quality measurements in VSD, UPS or SMPS circuits

Applications
- Semiconductor switching waveforms (device loss)
- Measuring high frequency sinusoidal, pulsed or transient currents from power frequency to rf applications
- Power converter development and diagnostics for example:
  - MOSFET/IGBT devices as small as TO-247 or around the terminals of large power modules
  - monitoring currents in small inductors, capacitors, snubber circuits, etc

For USA sales, support, service and deliveries:
Powertek US Inc 7-3rd Avenue Wantagh, NY 11793 USA Tel: +1 631 615 6279 Fax: +1 973-273-5893 Email: info@powertekus.com Website: www.powertekus.com

For UK & European sales, support, service and deliveries:
Powertek UK 19 Cornwallis Road Bilton, Rugby CV22 7HL UK New Tel: +44 01788 519911 Fax: +44 0870 0940135 Email: info@powertekuk.com Website: www.powertekuk.com
Performance

Output
- ±6V peak corresponding to ‘Peak Current’ into ≥100kΩ (e.g. DC1MΩ oscilloscope)
- ±3V peak corresponding to ‘Peak Current’ into 50Ω (for long cable runs > 2m)

Accuracy
- Conductor position in the coil (for a 2mm² conductor) typically ±2% reading
- Linearity (with current magnitude) 0.05% reading

Calibration
- Calibrated to ±0.2% reading with conductor central in the coil loop

DC offset
- ±3mV at 25°C

Temperature
- Coil and cable -40°C to +125°C - (CWT MiniHF)
- Coil and cable -20°C to +100°C - (CWT Mini)
- Integrator 0 to +40°C

di/dt ratings
- These are ‘Absolute maximum di/dt ratings’ and values must not be exceeded

<table>
<thead>
<tr>
<th>Type</th>
<th>Abs. Max. peak di/dt</th>
<th>Abs. Max. rms di/dt</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWT MiniHF</td>
<td>1100kA/μs</td>
<td>1.26kA/μs</td>
</tr>
<tr>
<td>CWT Mini</td>
<td>400kA/μs</td>
<td>70kA/μs</td>
</tr>
</tbody>
</table>

Coil length
- 100 or 200mm – longer coils available on request

Insulation
- 2kV peak (3.5mm thick coil - CWT Mini models ONLY)
- 5kV peak (4.5mm thick coil)

Cable length
- 1, 2, 5 or 4m – length of cable from coil to electronics longer cables available on request

Power
- Options:
  - B - Standard: 4 x AA 1.5V alkali batteries. Lifetime 25 hours. External adaptor disconnects batteries and power unit.
  - R - Rechargeable: 4 x AA 1.2V NiMH batteries. Lifetime 10 hours. External adaptor recharges batteries and powers unit.
- External power adaptor - US, EURO, UK versions available

Generating the part code

<table>
<thead>
<tr>
<th>Model</th>
<th>Power option</th>
<th>CABLE LENGTH</th>
<th>INSULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CWT MiniHF 06</td>
<td>R</td>
<td>1, 2, 5 or 4</td>
<td>100 or 200</td>
</tr>
</tbody>
</table>

If you have any queries regarding the CWT Mini range or require specifications outside our standard ranges please contact us.

www.powertekuk.com

December 2014