## PERFORMANCE CHARACTERISTICS

Туре	Sensitivity (mV/A)	Peak current (A)	Peak di/dt (kA/μS)	Noise max (mV <sub>pk-pk</sub> )	Droop typ. (%/ µs)	LF (-3dB) bandwidth f <sub>L</sub> typ. (Hz)	Gain @ 50 Hz typ. (dB's)	Frequency for -1% gain typ. (Hz)	HF (3dB) bandwidth f <sub>H</sub> typ. (MHz)
CWT015	200.0	30.0	1.0	20.0	0.100	116.0	-14.9	287.0	20.0
CWT03	100.0	60.0	2.0	15.0	0.060	66.5	-6.2	167.0	20.0
CWT06	50.0	120.0	4.0	12.0	0.030	32.0	-0.5	70.0	20.0
CWT1	20.0	300.0	10.0	10.0	0.009	9.0	0.0	24.0	20.0
CWT3	10.0	600.0	20.0	10.0	0.006	6.2	0.0	13.0	20.0
CWT6	5.0	1200.0	40.0	10.0	0.004	3.2	0.0	7.9	20.0

Higher current ranges available on request

OUTPUT	± 6V corresponding to 'peak current', (±2V into 50 Ω load at half the sensitivity)								
RISE TIME AND DELAY	See full technical datasheet for a description of rise time and delay								
CALIBRATION AND POSITION ACCURACY	Calibrated to ±0.2% with conductor central in the loop and supplied with UKAS traceable certification  Variation with conductor position in the coil loop typically ±2%								
LINEARITY	±0.05% (typical value full scale)								
DC OFFSET @ 25°C	±3.0mV (maximum value)								
ABSOLUTE MAXIMUM VALUES of di / dt (kA / µs) (values must not be exceeded)	CWT 015,03 CWT 06, 1 CWT3, 6	PEAK PEAK PEAK	25.0 25.0 40.0	RMS RMS RMS	1.0 @ 70°C 2.0 @ 70°C 2.2 @ 70°C				

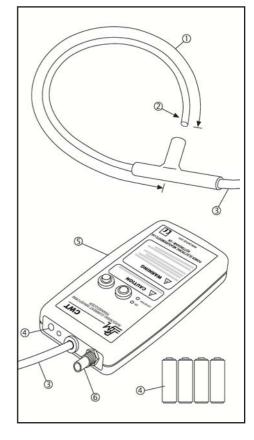
FOR FURTHER DETAILS OF THE CWT ULTRA MINI PERFORMANCE CHARACTERISTICS PLEASE SEE THE FULL TECHNICAL DATASHEET AVAILABLE FROM www.pemuk.com.

## COIL AND CABLE

① COIL CIRCUMFERENCE	80mm	
② COIL CROSS SECTION (max)	1.7mm	
PEAK COIL VOLTAGE ISOLATION	1.2kV	
Safe peak working voltage to earth. The coils are flash tested at 3kVrms / 50Hz for 60 se	econds	
	-10°C to 70°C	

## INTEGRATOR

4 POWER SUPPLY		Battery 4 x AA (1.5V standard alkali batteries) <b>-plus-</b> 2.1/2.5mm socket for 12V ( $\pm$ 10%) DC input <b>Typical life 30hrs (output into 1M</b> $\Omega$ <b>load)</b> Battery inoperative with DC supply present
(5)	INTEGRATOR BOX DIMENSIONS	H = 183mm, W = 93mm, D = 32mm
6	OUTPUT SOCKET	BNC (output impedance $50\Omega$ - unit supplied with 0.5m BNC - BNC coaxial cable)
MII	N. OUTPUT LOADING	≥100kΩ (for rated accuracy - recommended DC 1Mohm scope input)
		= $50\Omega$ (for driving long cables > 10m) A load of $50\Omega$ will reduce the CWT sensitivity to half it's normal value. It will also reduce the peak output to $\pm$ 2V
TE	MPERATURE RANGE	0°C to 40°C



## **ORDERING**

	Type + Power supply	]/	Cable Length	/	Coil Circumference
e.g. order code	CWT015 B	]/	1	/	80 UM

If you have any queries regarding the CWT or require specifications outside our standard ranges please do not hesitate to contact us.