

PERFORMANCE CHARACTERISTICS

Type	Sensitivity (mV/A)	Peak current (kA)	Peak di/dt (kA/μs)	Noise max ¹ (mV _{pk-pk})	Droop typ. (%/ms)	LF (3dB) bandwidth typ. (Hz) f_L	Phase lead at 50Hz typ. (deg)	HF (3dB) bandwidth typ. (MHz) f_H *2	
								Coil Length 100mm	Coil Length 200mm

High Sensitivity Ranges of CWT ... measuring currents from 300mA

CWT015 (NEW)	200.0	0.03	0.2	6.5	130	150	2.0 @ 6kHz	3.3	1.9
CWT03 (NEW)	100.0	0.06	0.4	4.5	90	105	2.0 @ 4kHz	4.6	2.3
CWT06 (NEW)	50.0	0.12	0.8	3.0	70	80	2.0 @ 3kHz	5.8	3.1
CWT1	20.0	0.3	2.0	2.5	40	50	1.9 @ 2kHz	12	8
CWT3	10.0	0.6	4.0	8.0	3.0	3.5	1.0 @ 300Hz	17	12

Standard Ranges of CWT ... measuring currents from 15A

CWT6 (NEW)	5.0	1.2	8.0	14.0	0.9	1.0	1.7	17	12
CWT15	2.0	3.0	20.0	7.0	0.7	0.8	1.3	17	12
CWT30	1.0	6.0	25.0	5.0	0.5	0.6	0.9	17	12
CWT60	0.5	12.0	25.0	3.5	0.35	0.4	0.6	17	12
CWT150	0.2	30.0	25.0	3.0	0.2	0.2	0.3	17	12
CWT300	0.1	60.0	25.0	3.0	0.1	0.1	0.2	17	12
CWT600	0.05	120.0	25.0	3.0	0.06	0.05	0.1	17	12
CWT1500	0.02	300.0	25.0	3.0	0.035	0.03	0.06	17	12

*1. Distributed around the f_L (-3dB) bandwidth.

*2. The high frequency bandwidth is in part dependent on coil length. Contact for values of f_H for other coil lengths

TYPICAL ACCURACY	Calibrated to UKAS $\pm 0.2\%$ with conductor central in the loop Variation with conductor position in the coil loop typically $\pm 2\%$	TYPICAL LINEARITY	$\pm 0.05\%$ (Full Scale)
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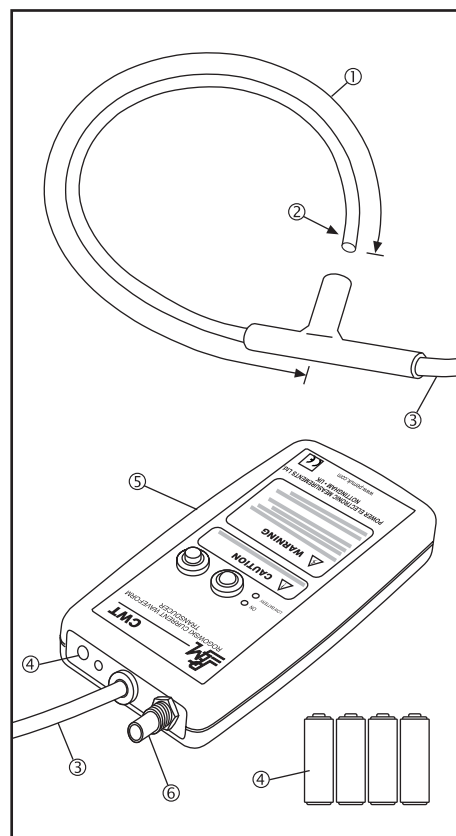
ABSOLUTE MAXIMUM VALUES OF di/dt (kA/μs) (value must not be exceeded)	CWT 015, 03, 06 CWT 1 all other CWT's	PEAK 25.0 PEAK 25.0 PEAK 25.0	RMS 0.6 @ 70°C RMS 1.0 @ 70°C RMS 1.2 @ 70°C	(Further information available on request)
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COIL AND CABLE

① COIL CIRCUMFERENCE	100 - or - 200mm
② COIL CROSS SECTION (max)	3.5mm - for 2kV isolation 4.5mm - for 5kV isolation
PEAK COIL VOLTAGE ISOLATION	2 - or 5kV Safe peak working voltage to earth. 2kV coils are flash tested at 3.8kVrms/50Hz for 60 seconds and 5kV coils are flash tested at 8kVrms/50Hz for 60 seconds. Information about continuous use of the coils at high voltage can be obtained
TEMPERATURE RANGE	-20°C to 100°C
③ CABLE LENGTH (from box to coil)	2.5m or 4m Max cable length for CWT015 is 1m, CWT03 is 1.5m, CWT06, 1 is 2.5m

INTEGRATOR

④ POWER SUPPLY	B Battery 4 x AA (1.5V standard alkali batteries) -plus- 2.1/2.5mm socket for 12 to 24V ($\pm 10\%$) DC input Typical life 70hrs Battery inoperative with DC supply present	R Rechargeable battery 4 x AA (rechargeable NiMH batteries) -plus- 2.1/2.5mm socket for 12 to 24V ($\pm 10\%$) DC input Recharge time 40hrs, Typical life 30hrs Battery is charged whenever DC supply present
⑤ INTEGRATOR BOX DIMENSIONS	H = 183mm, W = 93mm, D = 32mm	
⑥ OUTPUT SOCKET	BNC (output impedance 50Ω - unit supplied with 0.5m BNC - BNC coaxial cable)	
MIN. OUTPUT LOADING	100kΩ (for rated accuracy)	
TEMPERATURE RANGE	0°C to 40°C	



ORDERING

Type + Power supply	/	Cable Length	/	Coil Circumference	/	Insulation
CWT015 R	/	1	/	100 M	/	5

e.g. order code

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