

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 300mm	Coil Length 700mm

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

CWT015 (NEW)	200.0	0.03	0.2	6.5	130	150	2.0 @ 6kHz	4.1	2.2
CWT03 (NEW)	100.0	0.06	0.4	4.5	90	105	2.0 @ 4kHz	5.8	2.7
CWT06 (NEW)	50.0	0.12	0.8	3.0	70	80	2.0 @ 3kHz	6.5	3.1
CWT1	20.0	0.3	2.0	2.5	40	50	1.9 @ 2kHz	16	10
CWT1N	20.0	0.3	2.0	2.0	20	25	1.9 @ 1kHz	10	5
CWT3	10.0	0.6	4.0	8.0	3.0	3.5	1.0 @ 300Hz	16	10

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

CWT3N	10.0	0.6	4.0	14.0	0.9	1.0	1.7	10	5
CWT6 (NEW)	5.0	1.2	8.0	14.0	0.9	1.0	1.7	16	10
CWT15	2.0	3.0	20.0	7.0	0.7	0.8	1.3	16	10
CWT30	1.0	6.0	40.0	5.0	0.5	0.6	0.9	16	10
CWT60	0.5	12.0	40.0	3.5	0.35	0.4	0.6	16	10
CWT150	0.2	30.0	40.0	3.0	0.2	0.2	0.3	16	10
CWT300	0.1	60.0	40.0	3.0	0.1	0.1	0.2	16	10
CWT600	0.05	120.0	40.0	3.0	0.06	0.05	0.1	16	10
CWT1500	0.02	300.0	40.0	3.0	0.035	0.03	0.06	16	10

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

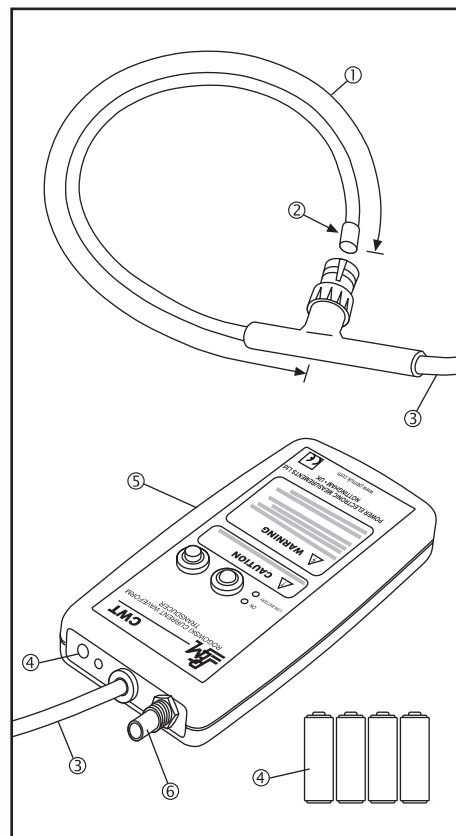
TYPICAL ACCURACY	Calibrated to UKAS ±0.2% with conductor central in the loop Variation with conductor position in the coil loop typically ±1%			TYPICAL LINEARITY	±0.05% (Full Scale)
ABSOLUTE MAXIMUM VALUES OF di/dt (kA/μs) (value must not be exceeded)	CWT 015, 03, 06 CWT 1N / 3N all other CWT's	PEAK 40.0 PEAK 20.0 PEAK 40.0	RMS 0.9 @ 70°C RMS 1.0 @ 70°C RMS 1.5 @ 70°C	(Further information available on request)	

COIL AND CABLE

① COIL CIRCUMFERENCE	300, 500, 700 or 1000mm
② COIL CROSS SECTION (max)	8.5mm - (14 mm with sleeve)
PEAK COIL VOLTAGE ISOLATION	5kV (10kV with sleeve)
Safe peak working voltage to earth. 10kV coils are flash tested at 15kVrms for 60 seconds with the sleeve added. 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 (±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 (±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

e.g. order code

CWT30 B

4

700

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