

CT-3500 S2

digital circuit breaker analyzer



Vanguard Instruments Company, Inc.
www.vanguard-instruments.com

A rugged, grey, rectangular electronic device, likely a handheld GPS or data logger. It features a monochrome screen displaying text, a numeric keypad with function keys, and various ports and connectors on its top and side surfaces. The device is shown from a three-quarter perspective.

CT-3500 S2 Controls & Indicators



CT-3500 S2 specifications

type	portable digital circuit-breaker analyzer
physical specifications	16"W x 7"H x 13" D (40.6 cm x 17.4 cm x 33 cm); Weight: 14 lbs. (6.4 Kg)
input power	100 – 240 Vac, 50/60 Hz
dry-contact inputs	3 channels
trigger input voltage	open/close: 30 – 300 V, DC or peak AC
breaker operations	Open, Close, Open-Close, Close-Open
timing resolution	±0.1 millisecond; accuracy: 0.05% of reading ±0.1 ms
display	back-lit LCD screen (128 x 64 pixels); viewable in bright sunlight and low light conditions
keypad	rugged, 44-key "QWERTY" membrane keypad
printer	built-in 2.5-inch wide thermal printer
internal test record storage	stores up to 128 timing records
computer interface	one USB PC interface, one USB Flash drive interface
pc software	Windows® based Breaker Analysis software included with purchase price
safety	designed to meet IEC61010 (1995), UL61010A-1, CSA-C22.2 standards
environment	Operating: -10°C to +50°C (+15°F to +122°F); Storage: -30°C to +70°C (-22°F to +158°F)
humidity	90% RH @ 40°C (104°F) non-condensing
altitude	2,000 m (6,562 ft) to full safety specifications
cables	furnished with full set of test leads (including 20-foot contact leads and 30-foot contact lead extensions)
options	transportation case
warranty	one year on parts and labor

NOTE : the above specifications are valid at nominal voltage and ambient temperature of +25°C (+77°F). Specifications are subject to change without notice.

CT-3500 S2 thermal printer output

TEST RESULTS			
DATE:04/16/12		TIME:06:50:23	
COMPANY:	VIC		
STATION:	LAB1		
CIRCUIT:			
MFR:			
MODEL:	CT3500 S2		
S/N:			
KVA RATING:			
OPERATOR:			
NOTES: _____			
TEST : OPEN			
CONTACT OPEN TIME			
CH	TIME (ms)	CYCLE 50 Hz	BOUNCE (ms)
A	15.80	0.79	0.00
B	15.90	0.79	0.00
C	15.80	0.79	0.00
DELTA TIME (ms) =			0.10



Instruments designed and developed by the hearts and minds of utility electricians around the world

Vanguard Instruments Company, (VIC), was founded in 1991. Currently, our 28,000 square-foot facility houses Administration, Design & Engineering, and Manufacturing operations. From its inception, VIC's vision was, and is to develop and manufacture innovative test equipment for use in testing substation EHV circuit breakers and other electrical apparatus.

The first VIC product was a computerized circuitbreaker analyzer, which was a resounding success. It became the forerunner of an entire series of circuitbreaker test equipment. Since its beginning, VIC's product line has expanded to include microcomputer-based, precision micro-ohmmeters, single and three phase transformer winding turns-ratio testers, transformer winding-resistance meters, mega-ohm resistance meters, and a variety of other electrical utility maintenance support products.

VIC's performance-oriented products are well suited for the utility industry. They are rugged, reliable, accurate, user friendly, and most are computer controlled. Computer control, with innovative programming, provides many automated testing functions. VIC's instruments eliminate tedious and time-consuming operations, while providing fast, complex, test-result calculations. Errors are reduced and the need to memorize long sequences of procedural steps is eliminated. Every VIC instrument is competitively priced and is covered by a liberal warranty.



Vanguard Instruments Company, Inc.

1520 S. Hellman Avenue • Ontario, California 91761, USA
Phone 909-923-9390 • **Fax** 909-923-9391
www.vanguard-instruments.com