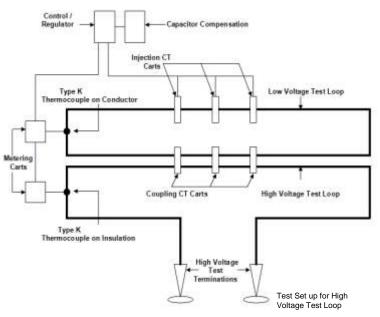
Heat Cycle Test Set

Low Voltage, current Test Set For Power Cable

PRECIS

■ The HAEFELY HIPOTRONICS series of High Current Heat Cycle Test Systems are designed to raise and control the temperature of a conductor or other low impedance electrical loop to simulate the current loading conditions found in electrical circuits. This heating is achieved by utilizing the test loop as the secondary winding of a current transformer for inductive heating. Measurement of the loop temperature is made by direct contact of a *K*-type thermocouple probe with the conductor of the test loop.

Our systems are offered as low voltage test systems or high voltage test systems. The low voltage test system utilizes one loop of the conductor passing through the desired number of CT carts to reach the necessary power level. For the high voltage test systems we again utilize the low voltage loop, but add a second loop through coupling carts which both the low and high voltage loops pass while isolating the low voltage and high voltage portions of the system. Once the high voltage loop is passed through the coupling carts the desired voltage is applied to the test loop with an AC high pot, while the desired current is generated from the Load Cycle Test Set. Additionally Impulse tests can be performed on the high voltage side of the test set up.





FEATURES

- ☑ Robust user friendly PLC based controls
- ☑ Temperature set controls
- ☑ Integrated chart recorder
- \square Optically isolated type k thermocouples
- ☑ Safety Interlocks
- Automatic and manual control of test sequences
- ☑ Timer for up to 365 days
- ☑ Zero start inter-lock
- ☑ Mobile CT carts with castors
- ☑ Updateable software
- ☑ Capacitive Compensation
- ☑ Main Power Breaker
- ☑ Future Expansion

APPLICATIONS

Testing of insulating liquids in:

Cable Testing







TECHNICAL SPECIFICATIONS

General

Input Voltage xxx V, 1p, 50 or 60 Hz.

Output Voltage 0 ... 12.5, 15, 25, 30, 37.5, 45, 50, 60, 62.5, 75, 100, 120, 200, 240 V

Output Current 0 ... 2,000, 3,000, 4000, 5000 or 6000A

Temperature Meter Range 0 ... 199.9 degrees C

Temperature Meter Accuracy <u>+</u> 1% (10 ... 90% of meter range)

Temperature Thermocouple $\overline{\text{Type } k}$ (optically isolated)

Regulator Voltmeter Range 0 ... 1000V AC

Regulator Voltmeter Accuracy ± 2%
Regulator Output Current Range 0 ... 20 A
Regulator Current Meter Accuracy ± 2%
Recorder Width 100 mm

PRECIS

System Data

Number of CT carts	Series	Voltage (V)	Voltage (V)	Available current levels (A)
		60Hz	50Hz	
1	LV	15	12.5	
2	LV	30	25	2000
3	LV	45	37.5	3000
4	LV	60	50	4000
5	LV	75	62.5	5000
6	LV	90	75	6000
8	LV	120	100	
16	LV	240	200	

SCOPE OF SUPPLY

Qty. 1 PLC control counsel with chart recorder

Qty. 1 Voltage regulator with patented PVT.

Qty. x Current Transformers (quantity depends on system

voltage)

Qty. 1 or 2 Metering carts with type k thermo couples (1 for low voltage testing, 2 for high voltage testing)

Instruction Manual

ORDERING INFORMATION

With the following information we can help determine the correct test set for any need.

Cable Length
Applicable Standards
Type of insulation & cross-section
Type of conductor & cross-section
Temperature constraints

Example of System Model Number

LV30 - 5000 (30V, 5000A, 2 CT carts)

* Additional models and options are available upon request.

CONTROL PANEL



OFFICES:

Qty. 1

Europe Haefely Test AG Birsstrasse 300 4052 Basel Switzerland

China

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