



komax

CT45-HV 3KV RACK

HIGH VOLTAGE TEST POINT RACK

Developed for the wire-harness high voltage test, the CT45-HV 3kV Rack device is a relay matrix rack with a CT45 upgraded controller designed to reutilize all CS WIN nx[®] functionalities.

As a result of this combination the system enables full flexibility to integrate low voltage and high voltage technologies on the same application.

Features

- Management of max. 144 test points
- Combinable with LV test point card bus

Software drivers

- Associated Research Hypot[®] Series 3870.
- Milliohmmeter RESISTOMAT[®] Model 2316.
- Extended device driver compatibility mode integration.

Equipment

- Measurement technology
- Control of digital inputs/outputs and test adapter LED for position and error detection
- Test point search function (PIN Probe)

Measurements

- Connection test, Short-circuit test, Component test, Dielectric Withstand, Insulation test, 4-wire measurement

Technical data

Dimensions (H / W / D):	19" plug-in module (134 / 427 / 376 mm)
Power supply / Norminal power:	24 V DC, max. 5% ripple / max. 250 W
Number of test points:	max. 136
Continuity test via threshold identification:	20 Ω to 10 kΩ, ±2 %
Short-circuit test via threshold identification:	10 kΩ to 1 MΩ, ±5 %
Resistance measurement:	5 Ω to 100 kΩ, ±1 %, min. ±2 Ω 100 kΩ to 10 MΩ, ±5 %
Capacitance measurement:	10 nF to 100 μF, ±5 %, min. ±10 nF. The measurement is performed with a typical frequency of $f_{Mess} = 20$ Hz. Deviations from the capacitor data sheet may have to be taken into account.
Diode test:	Zener (up to 11 V), Si, Ge
Digital outputs DO:	8 channels, freely programmable, with max. 350 mA per output (500 mA total)
Digital inputs DI:	8 channels, freely programmable
Voltage IO bus:	12 or 24 V DC
min. test software:	up from CS WIN nx [®] 5.6.13.13 (Win 7/10)
min. hardware:	Depending on the CS WIN nx [®] requirement used
Parameter:	Rated value
Switching operation:	min. 10 ⁵ cycles
Operation altitude:	max. 2000m height over sea level
Maximum voltage HV :	4 kV DC / 3 kV AC
Maximum voltage LV:	15 V DC
Maximum measure current:	1 A