

# CATS 100-3232

## SPECIFICATIONS

### DIGITAL TEST CAPABILITIES

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Drive / Sense channels	: 32 channels.
Drive / Sink capability	: 220 mA per ch., Fixed drive levels for zero, Tristate and +5v .
Sense Threshold	: Programmable from 0v to 5.12v in steps of 20mv per step.
RAM behind each drive	: 8k x 2 RAM.
Test speed	: Programmable from a maximum of 2 micro seconds to 16 milliseconds per tick in 14 steps.
Guard channel	: 8 channels programmable to 0v, 5v or Tristate.
Library	: TTL, CMOS, INTERFACE, LSI, analog devices and user libraries.
Diagnostic software	: Qmax CATS 100 software runs under MS-Windows '95.
Test Language	: Qmax CATS 100 IDDE software with QDDL, WEST and GTPG. (Optional)
DUT power supply	: +/- 5v @ 20 Amps Auto Switch on/off under program control.
Functions	: Power on In-Circuit Functional Test, Unknown Device Identify, Automatic Circuit compensation, Automatic pull up for open collector Testing, Board Learn / Test functions with auto guarding guide, Board Functional test thru card edge, cluster testing, User expandable test library, In-Circuit Resistance / Capacitance / voltage measurement. Power on pin status indication for pin floats, links, voltages and impedance, Logic Analyser waveform display, clear PASS / FAIL indication for ease of use, Variable Test Speed, Circuit Tracer function (Optional), Integrated Testing of ICFT, QSM / VI in one operation.

### ANALOG TEST CAPABILITIES

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Drive / Sense channels	: 2 Analog channels to any of the 32 channels and 2 sets of movable probe.
Drive / Sense capability	: +/- 10mA max; +/- 32v max.
RAM behind channels	: 8k x 8 bits each drive and sense channels.
Data rate	: 2 micro seconds per tick to 16 milliseconds per tick in a steps.
Drive pattern	: Sine, Ramp, Triangle, Square or use definable.
Functional	: Functional Test for Op-Amps, Comparators, Diodes, Transistors, SCR, FETS in Out-Circuit mode.

### QSM AND VI TRACE

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Channels	: 32 channels.
Probes	: 2 probes with 2 reference signals inputs for QSM.
Voltage range	: +/- 2.5v, +/-8v, +/-19v, +/-32v Current range from 0.2mA to max. of 10 mA .
Frequencies	: 40 Hz, 312 Hz, 2.5 KHz.
Drive pattern	: Sine or as required.
Function	: QSM, VI, Impedance and Voltage measurements.

### OSCILLOSCOPE

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No. of channels	: 2 (Single or dual trace)
Amplitude	: 0 to 30 volts
Time base	: 9.6 milli seconds to 80 micro seconds.
Trigger	: Auto, normal, single, positive or negative.
Input Impedence	: 1 kilo ohms to 100 kilo ohms.

### SHORT LOCATOR

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Ranges	: 3 ranges at 200 milli ohms, 2 ohms and 20 ohms using 4 wire measurements.
Resolution	: 800 micro ohms in 200 milli ohms range.
Display	: Bar Graph and Digital readout.
Physical Dimensions	: 390 mm (W) x 465 mm (D) x 200 mm (H).
Weight	: 12 kgs.
Power requirement	: 220v @ 2 Amp max. / 110v @ 4 Amp max.