## **Typical Environmental Tests & Mechanical Tests For LCD**

## Typical Environmental Tests\*

TEMPERATURE TESTS	COMMERCIAL GRADE	EXTENDED GRADE
High temperature storage (IEC 68-2-2)	+70 <sup>o</sup> C/3 days	+85 <sup>o</sup> C/4 day
Low temperature storage (IEC 68-2-1)	-25ºC/3 days	-40°C/4 days
Temperature, cyclic (IEC 68-2-14)	-25 <sup>o</sup> C/30 min +25 <sup>o</sup> C/30 min +70 <sup>o</sup> C/30 min +25 <sup>o</sup> C/30 min 10 cycles	-40°C/30 min +25°C/30 min +85°C/30 min +25°C/30 min 10 cycles
Damp heat, cyclic (IEC 68-2-30)	25 <sup>o</sup> C/95% RH/24h 40 <sup>o</sup> C/93% RH/24h 6 cycles	25 <sup>o</sup> C/95% RH/24h 40 <sup>o</sup> C/93% RH/24h 21 cycles
Damp heat, steady state (IEC 68-2-3)	40ºC/93% RH every 4 days	40 <sup>o</sup> C/93% RH every 21 days

\* Expected lifetime under normal operating conditions

-- 50,000 hours (commercial) /100,000 hours (extended temperature).

These are minimum test. For other specifications, please consult VARITRONIX.

## **Mechanical Tests**

Low air pressure (IEC 68-2-13)	i@	25 <sup>o</sup> C/86 to 106Pa
<b>Vibration</b> (IEC 68-2-6) cells must be mounted on a suitable connector	frequency ampitude duration	10 to 55 Hz 0.75 mm 20 cycles in each direction
<b>Shock</b> (IEC 68-2-27) Half-sine pulse shape	pulse duration peak acceleration number of shocks	11 ms 981 m/s <sup>2</sup> = 100g 3 shocks in 3 mutually perpendicular axes
<b>Bump</b> (IEC 68-2-29)	pulse duration peak acceleration number of shocks	6 ms 392 m/s2 1000±10

[Back to previous page]

