

LTT Transient Recorders. Technical Specifications

| Model | LTT-184-8ch | LTT-184-16ch | LTT-186-8ch | LTT-186-16ch | LTT-19x |
|---------------------------|-------------------------|----------------------|--------------------|---------------------|---------------------|
| Number of Channels: | 8 differential | 16 differential | 8 differential | 16 differential | 32 differential |
| AD-Converter: | 8 separate simultaneous | 16 separate simult.. | 8 separate simult. | 16 separate simult. | 32 separate simult. |
| Stand-Alone: | No | No | 40 GB HD | 40 GB HD | No |
| RAM: | 128-512MB | 128-512 MB | 128-512 MB | 128-512 MB | 2 x 128-512 MB |
| External Frequency / RPM: | Yes / No | Yes / Yes | Yes / No | Yes / Yes | No / No |

| Preamp | | | | |
|-------------------|---|----------------|---|-------------|
| Input coupling | Option A: | | Option B: | |
| | differential or referenced to ground, individually configurable | | differential or referenced to ground, individually configurable | |
| Input impedance | AC | DC | DC (1:1) | DC (1:10) |
| | 10 nF in 0,1 MΩ, 150 pF | 0,1 MΩ, 150 pF | 0,1 MΩ, 150 pF | 1 MΩ, 15 pF |
| Protection | ± 200 V differential, ± 100 V for each channel | | | |
| Measurement range | ± [50V,20V,10V,5V,2V,1V] per channel configurable | | | |
| Floating voltage | ≤ (input range x 7.7) ≤ 100V | | | |
| Drift | ≤ 25 ppm/°C | | | |
| Offset drift | ≤ 0.2 LSB/°C | | | |
| Digitaler Input | 16 Bit, TTL | | | |
| Signal bandwidth | 6.5 MHz (-3dB) | | | |
| Crosstalk | < measurement resolution | | | |
| Sampling rate | 1 kHz to 2.5 MHz (16 Bit); up to 20 MHz (12 Bit) | | | |
| Clock | internal, external | | | |

| Trigger | |
|---------|---|
| Trigger | Pre- / Posttrigger on multiple channels |
| Source | Analog and digital Inputs |

| Overall precision | | |
|--|-------------------------------|---------------------|
| Time axis deviation | ≤ 20 ppm using internal clock | |
| Internal noise at 20 MHz sampling rate | ≤ 5 LSB | |
| Internal noise at 2.5MHz sampling rate | ≤ 4 LSB (0.006 %) | |
| Measurement Range | Zero point error | Measurement Error |
| ± 1 V, ± 2 V | ≤ 5 mV | ≤ 0.08% Input Range |
| ± 5 V, ± 10 V | ≤ 10 mV | ≤ 0.05% Input Range |
| ± 20 V | ≤ 20 mV | ≤ 0.1% Input Range |
| ± 50V | ≤ 40 mV | ≤ 0.2% Input Range |
| AC coupling | ≤ 3% Input Range | |

| Transfer - Speeds | |
|-------------------------------|---|
| Internal RAM | 200 MB/s (100 MS/s) |
| Internal hard disk (LTT-186) | max. 19.6 MB/s (9.8 MS/s) |
| PC (SCSI) | typ. 17 MB/s (8.5 MS/s) |
| PC (IEEE1394) | typ. 9 MB/s (4.5 MS/s) |
| PC hard disk | Transfer speed to PC hard disk depends on PC type. Typ. (April 2003):10 MB/s (5 MS/s) |

| RAM | |
|-----------------------|--|
| Size of RAM | 128 MB (64MS) |
| Access time | 4 ns |
| Internal HD (LTT-186) | 8 GB or 16GB data buffer (also available: 1 GB Flash Disk) |

| Operating Conditions | |
|----------------------|---|
| Power | 9-36VDC / 100-240VAC, 80 to 120 W |
| Temperature | +10 to +40 °C |
| PC connection | SCSI-II-Interface, 8 Bit, 20 MHz ULTRA or IEEE1394 400 MBit/s |
| OS | Win95B, Win98, Win98SE, Win2000, WinXP SP1, WinNT4 (Desktop only) |

| Dimensions | LTT-18x | 9-36VDC Power Supply | LTT-19x (19" - Rack) |
|------------|------------|----------------------|----------------------|
| Height | 63 mm | 44 mm | 3 units |
| Width | 325 mm | 75 mm | 437 mm |
| Depth | 280 mm | 166 mm | 565 mm |
| Weight | ca. 4.5 kg | ca. 660 g | ca. 20 kg |

Distributore esclusivo per l'Italia:

**Instrumentation
Devices** 

Via Acquanera 34/M – 22100 COMO
tel. 031.525.391(ra) – fax 031.525.0984
E-mail: info@instrumentation.it
Web: www.instrumentation.it