

LTT Tasler Technical Data / Technische Daten

LTT Tasler		Transientrecorder				SensorCorder			
LTT Tasler	Type	LTT 184/8	LTT 184/16	LTT 186/8	LTT 186/16	LTT 180/8	LTT 180/16	LTT 182/8	LTT 182/16
Recording Media	Recording Media	Memory	Memory	Hard Disk	Hard Disk	Memory	Memory	Hard Disk	Hard Disk
	Media Type	RAM		RAM + HDD		RAM		RAM + HDD	
	capacity	128 - 512MB		40GB		128 - 512MB		40GB	
	comment	Also recording on hard disk drive of connected computer is possible.							
Max. data transfer rate	Internal RAM	200MByte/s				16MByte/s			
	Internal HDD or Tape	-		19.6MByte/s		-		16MByte/s	
	PC (with SCSI)	17MByte/s				16MByte/s			
	PC (with USB)	11MByte/s		-		11MByte/s		-	
	comment	Transfer speed to computer hard disk depends on PC type, hard disk fragmentation, virus scanner software and							
Input characteristics	No. Of channels	8	16	8	16	8	16	8	16
	Max. No. of channels	4096				4096			
	Max. Bandwidth	DC - 6.5MHz (6ch, RAM) DC - 1 MHz (3ch, HDD) DC - 200kHz (16ch, HDD)				DC - 100kHz (16ch, HDD)			
	Quantisation	16-bit (400Hz - 1MHz); 12-bit (1.1 - 6.5MHz)				16-bit (400Hz - 500kHz);			
	External Quantisation Clock	YES; (Bandwidth = Clock / 2.5)				YES; (Bandwidth = Clock / 40)			
	Impedance	100kOhm (Optional 1MOhm, Input range 10V - 200V)				100kOhm			
	Connector	2x BNC per channel (single ended and differential)				Sub-D 9-pin			
	Input Protection	+/- 200V differential; +/- 100V single ended				+/-30V			
Direct voltage Input	Galvanic Isolation	-				+/- 200V (DC - 50kHz)			
	Range	+/- 1, 2, 5, 10, 20, 50 Vpk				+/- 0.125, 0.25, 0.5, 1, 2, 5, 10 Vpk			
	Coupling	DC / AC				DC / AC			
	DC offset	0%				+/- 250% of input range			
	Dynamic range	82dB (DC - 1MHz @ 16bit) 58dB (DC - 6.5MHz @ 12 bit)				72dB or better (0.1V - 10V)			
	Inter-channel phase difference	0.1° or less (DC - 20kHz) 0.5° or less (DC - 100kHz)				1.1° or less (DC - 10kHz) 2.2° or less (DC - 50kHz)			
	Crosstalk	-115dB or less (DC - 6.5MHz)				-90dB or less (DC - 200kHz)			
ICP Input	Range	-				+/- 0.125, 0.25, 0.5, 1, 2, 5, 10 Vpk			
	Power supply	-				18V / 0 - 10mA (in 0.5mA steps)			
	Dynamic range	-				72dB or better (0.1V - 10V)			
	Inter-channel phase difference	-				1.1° or less (DC - 10kHz) 2.2° or less (DC - 50kHz)			
	Crosstalk	-				-90dB or less (DC - 200kHz)			
	Coupling	-				AC (Fc = 5Hz)			
Strain Gauge Input	Range	-				+/- 1, 2, 5, 10, 20, 50, 100, 200mV			
	Bridge power supply	-				-			
	Constant Voltage	-				+/- 1, 2, 5, 10V			
	Constant Current	-				0 - 10mA (in 0.5mA steps)			
	Bridge Type	-				Full, Half and Quarter-Bridge (with or without sense line)			
	Resistor	-				120 and 350 Ohm			
	Coupling	-				DC			
	Dynamic range	-				60dB or better (1 - 5mV) 66dB or better (10 - 50mV) 72dB or better (100 - 500mV)			
	Inter-channel phase difference	-				1.1° or less (DC - 10kHz) 2.2° or less (DC - 50kHz)			
Crosstalk	-				-90dB or less (DC - 200kHz)				
Auxiliary channels	Digital	-				-			
	No. Of channels	16				16			
	Max sample frequenz	20MHz (depends on analog sampling frequency)				500kHz (depends on analog sampling frequency)			
Trigger	No. of digital channel	8				1			
	Trigger on analog channels	Trigger on Level, Comparison, Region, Extrema in Region, Missing Event, Pre-Trigger				Trigger on Level, Comparison, Region, Extrema in Region, Missing Event, Pre-Trigger			
Mathe only on-line! not stand-alone!	Mathematik on analog channels	FFT, Filter, Smooth, dy/dt, dy²/dt², multiplication, addition, Histogram, Pulse width, Eff Value, Average, Integral				FFT, Filter, Smooth, dy/dt, dy²/dt², multiplication, addition, Histogram, Pulse width, Eff Value, Average, Integral			
	Save Mathe channels as additional analog channel	Yes				Yes			
Operation Conditions	Power Supply	9 - 36VDC / 100 - 240VAC; 60 - 80W consumption				9 - 18VDC / 100 - 240VAC; 80 - 120W consumption			
	Environmental Temperature	Operation: +10°C to +40°C; Storage: -30°C to +75°C							
	PC Connection	SCSI-II-Interface, 8bit, 20MHz ULTRA; IEEE1394 400Mbit/s; USB 1.0; USB 2.0; Ethernet 10/100/1000							
Dimensions	Operation System	Win95B; Win98; Win98SE; Win2000; WinXP SP1; WinXP SP2;							
Dimensions	Front-End all systems:	Hight: 63 mm,		Width: 325 mm,		Depth: 280 mm,		Weight: approx. 4.5 kg	
Dimensions	Power supply Front-End	Hight: 44 mm,		Width: 75 mm,		Depth: 166 mm,		Weight: approx. 660 g	
Dimensions	19" Rack	Channels: 32,		Hight: 3 HE,		Width: 500 mm,		Depth: 460 (490) mm,	
Dimensions	Power Supply for 19" Rack	11 - 13VDC / 100 - 240VAC;		120 - 160W consumption		11 - 13VDC / 100 - 240VAC;		160 - 240W consumption	